
Volume

#

R0250

BOOK A-250

INDEX DIAGRAM.

Township 29 S., Range 3 W.

37	6	5	4	3	69	2	64	1	63
41							35	35	
7	8	9		10	69	11	62	12	32
						61		60	
18	17	16		15	69	14	60	13	32
						59		58	
10	20	21		22	69	23	57	24	31
						57		56	
30	29	28		27	69	26	56	25	31
						55		55	
31	32	33		34	69	35	54	36	30

Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

WE, and
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

, Chainman.

, Chainman.

Subscribed and sworn to before me this }
day of, 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

, Moundman.

, Moundman.

Subscribed and sworn to before me this }
day of, 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

, Axman.

, Axman.

Subscribed and sworn to before me this }
day of, 189 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

, Flagman.

Subscribed and sworn to before me this }
day of, 189 }



BOOK A-250

INDEX DIAGRAM.

Township 29 S., Range 21 W.

0	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and _____
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

_____, Chainman.

_____, Chainman.

Subscribed and sworn to before me this _____
day of _____, 189 _____ }



WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

_____, Moundman.

_____, Moundman.

Subscribed and sworn to before me this _____
day of _____, 189 _____ }



WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

_____, Axman.

_____, Axman.

Subscribed and sworn to before me this _____
day of _____, 189 _____ }



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

_____, Flagman.

Subscribed and sworn to before me this _____
day of _____, 189 _____ }



INDEX DIAGRAM.

Township 29 S, Range 21 1/2 W.

	85	84	83	82
6	130	122	115	109
7	130	129	121	115
8	129	121	114	107
15	129	128	120	114
16	127	120	113	106
17	127	128	120	113
18	127	127	119	112
19	126	118	112	105
20	126	125	118	111
21	124	123	117	110
22	123	116	109	102
23	124	123	117	103
24	123	116	109	102
25	124	123	117	103
26	125	124	118	111
27	126	125	119	114
28	127	126	120	113
29	128	127	121	114
30	129	128	122	115
31	129	127	120	113

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

We, and do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the ground, or have it so prepared, and plumb the tally pins, either by stretching or dropping the same; that we will point the true distance to all visible objects, and the true heights of all trees that we assist in surveying, according to the best of our skill and ability, and in accordance with instructions given us, in the survey of corners, according to the best of our skill and ability, and in accordance with instructions given us, in the survey of

....., *Chainman.*

....., *Chainman.*

Subscribed and sworn to before me this }
day of , 189 }


S E A L

We, and do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., *Moundman.*

....., *Moundman.*

Subscribed and sworn to before me this }
day of , 189 }


S E A L

We, and do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., *Axman.*

....., *Axman.*

Subscribed and sworn to before me this }
day of , 189 }


S E A L

I , do solemnly swear that I will well and truly perform the duties of flagman, according to instructions given me, to the best of my skill and ability, in the

....., *Flagman.*

Subscribed and sworn to before me this }
day of , 189 }


S E A L

BOOK A-250

INDEX DIAGRAM.

Township 28 S, Range 21 1/2 W.

	144	143	142	141	
6	146	185	177	171	1
7	147	183	176	170	12
	183	182	175	169	
18	147	182	175	168	13
	181	181	174		
19	148	180	173	167	24
	180	179	173	167	164
20	148	179	172	166	151
	179	178	172	166	163
21	149	178	171	165	150
			84	85	36
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, and
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

....., Chainman.

....., Chainman.

Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., Moundman.

....., Moundman.

Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., Axman.

....., Axman.

Subscribed and sworn to before me this }
day of , 189 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., Flagman.

Subscribed and sworn to before me this }
day of , 189 }



BOOK A-250

INDEX DIAGRAM.

Township 28 S., Range 3 W.

205	6	5	4	3	229	2	228	1
				239		227		227
205	7	8	9	10	238	11	226	12
						225		225
200	18	17	16	15	238	14	224	13
	231					223		222
199	19	20	21	22	238	23	222	24
	230					221		221
199	30	237	29	28	238	26	220	25
	230					219		218
198	31	237	32	33	238	35	218	30

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, and

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

....., *Chainman.*

....., *Chainman.*

Subscribed and sworn to before me this }
day of , 189 }



WE, and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., *Moundman.*

....., *Moundman.*

Subscribed and sworn to before me this }
day of , 189 }



WE, and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., *Axman.*

....., *Axman.*

Subscribed and sworn to before me this }
day of , 189 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., *Flagman.*

Subscribed and sworn to before me this }
day of , 189 }



BOOK A-250

INDEX DIAGRAM.

Township 2^m S, Range 2^m E.

	253	263	252	251	250	
6	291	283	3	2	1	257
7	291	290	281			257
8	289	281	10	275	11	
9	289	289	280	274		
18	288	288	16	279	15	273
19	288	287	279	272		
20	286	286	21	278	22	272
21	286	285		278	23	255
22				271		
23				271		
24						
25						
26						
27						
28						
29						
30						
31						

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, and do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

....., Chainman.

....., Chainman.

Subscribed and sworn to before me this
day of , 189 }



WE, and do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., Moundman.

....., Moundman.

Subscribed and sworn to before me this
day of , 189 }



WE, and do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., Axman.

....., Axman.

Subscribed and sworn to before me this
day of , 189 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., Flagman.

Subscribed and sworn to before me this
day of , 189 }



BOOK A-250

INDEX DIAGRAM.

Township 26 S, Range 37 E.

6	5	329	4	325	3	2	1
		325					
7	8	329	9	324	10	11	12
		319	319	323	324		
18	329	17	319	16	322	15	14
	318		322				
19	329	20	318	21	321	22	23
	315	315	317		321		24
30	314	29	316	28	320	27	26
302	301						
South Boundary							
31	32		33		34	35	36

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

We, and
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

....., Chainman.

....., Chainman.

Subscribed and sworn to before me this }
day of , 189 }



We, and
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., Moundman.

....., Moundman.

Subscribed and sworn to before me this }
day of , 189 }



We, and
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., Axman.

....., Axman.

Subscribed and sworn to before me this }
day of , 189 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., Flagman.

Subscribed and sworn to before me this }
day of , 189 }



BOOK A-250

INDEX DIAGRAM.

Township 24 S, Range 1 W								459
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394 6 378 5 367 4 359 3 379 2 380 1 381								
378	377	366	359				380	
395 7 376 8 365 9 358 10				11		12		
375	374	364	357					
396 16 373 17 364 18 356 15				14		13		
372	372	363	356					
397 19 371 20 362 21 355 22				23		24		
370	369	361	354					
398 20 368 20 360 28 353 27				26		25		
351	350	350	349					
399 31 367 32 360 33 353 34				35		36		
343	344	345	347					
Meanders Page								

PRELIMINARY OATHS OF ASSISTANTS.

WE, and

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by striking or dropping them; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

, Chainman

, Chainman

Subscribed and sworn to before me this

day of, 180 }


WE, and

do solemnly swear that we will well and truly perform the duties of moudlers in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

, Moudler

, Moudler

Subscribed and sworn to before me this

day of, 180 }


WE, and

do solemnly swear that we will well and truly perform the duties of axemen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

, Axeman

, Axeman

Subscribed and sworn to before me this

day of, 180 }


I,

perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

, Flagman

Subscribed and sworn to before me this

day of, 180 }


INDEX DIAGRAM.

Township 25 S, Range 3 W.

				447	447	432	417
6	5	4	3			432	417
7	8	9	10	431	11	431	416
						444	
18	17	16	15	430	14	441	415
						441	410
19	20	21	22		23	439	414
						438	417
30	29	28	27		26	436	413
						436	414
31	32	33	34		35	434	413

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

We, and do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pine, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

....., Chairman

....., Chairman

Subscribed and sworn to before me this
day of , 189 }



We, and do solemnly swear that we will well and truly perform the duties of moudmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., Moudman

....., Moudman

Subscribed and sworn to before me this
day of , 189 }



We, and do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., Axman

....., Axman

Subscribed and sworn to before me this
day of , 189 }



I, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., Flagman

Subscribed and sworn to before me this
day of , 189 }



BOOK A-250

INDEX DIAGRAM.

Township 23 S, Range 18T.		541	542	543	544	
6	5	481 488	518	515	504	489
7	8	481 488	517	513	503	489 490
18	19	482 487	513	512	502	
20	21	482 486	511	501	501	491
22	23	482 486	510	510	501	
24	25	482 483	508	507	499	
26	27	485	521	506	499	493
28	29	521	520	505	498	
30	31	484	519	505	498	495
						499

Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

WE,

and

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

....., Chainman.

....., Chainman.

Subscribed and sworn to before me this

day of, 189 }



WE,

and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., Moundman.

....., Moundman.

Subscribed and sworn to before me this

day of, 189 }



WE,

and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., Axman.

....., Axman.

Subscribed and sworn to before me this

day of, 189 }



I,

, do solemnly swear that I will well and truly

perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., Flagman.

Subscribed and sworn to before me this

day of, 189 }



BOOK A-250

INDEX DIAGRAM.

Township 22 S., Range 1 W.

6	5	4	3	2	1							
7	8	9	10	11	12							
18	17	16	15	14	13							
			563	564	564							
19	20	21	562	584	580	24	565					
561	561	562	587	583	579							
560	30	593	29	590	28	586	27	583	26	578	25	566
594	592	590	586	586	582	578						
559	31	592	32	588	33	585	34	581	35	577	36	568
480	575	573	573	572	571	570	479					
Meanders Page												

PRELIMINARY OATHS OF ASSISTANTS.

We, the undersigned assistants, do solemnly swear that we will well and faithfully execute the duties of Assistant; that we will level the chain over even and uneven ground, and plumb the tally pole, either by stretching or straightening the chain; that we will report the true distances to all notable objects, and the true length and all time that we spend in measuring, to the best of our skill and ability, and in accordance with instructions given us, before surveying and

J. C. Chapman,

J. C. Chapman,

Subscribed and sworn to before me this

day of 189 }


J. C. Chapman

We, the undersigned assistants, do solemnly swear that we will well and truly perform the duties of Assistant, to the measurement of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

J. C. Chapman,

J. C. Chapman,

Subscribed and sworn to before me this

day of 189 }


J. C. Chapman

We, the undersigned assistants, do solemnly swear that we will well and truly perform the duties of Assistant, to the measurement of corners,

and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

J. C. Chapman,

J. C. Chapman,

Subscribed and sworn to before me this

day of 189 }


J. C. Chapman

I, the undersigned assistant, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

J. C. Chapman,

Subscribed and sworn to before me this

day of 189 }


J. C. Chapman

BOOK A-250

INDEX DIAGRAM.

Township _____; *Range* _____

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

We, and

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

....., Chainman.

....., Chainman.

Subscribed and sworn to before me this

day of, 189 }



We, and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., Moundman.

....., Moundman.

Subscribed and sworn to before me this

day of, 189 }



We, and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., Axman.

....., Axman.

Subscribed and sworn to before me this

day of, 189 }



I, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., Flagman.

Subscribed and sworn to before me this

day of, 189 }



BOOK A-250

No. 3 P. 1

FIELD NOTES

OF THE SURVEY OF THE

Exterior boundaries of Leg. S. P. 3. W.

*of the Salt Lake Basd and Meridian,
State of Utah*

AS SURVEYED BY

*Jn V. Breckin & Horace H. Carley, United States Deputy Surveyors
their Contract No. 208, dated October 20", 1896
Survey commenced October 4", 1897
Survey completed October 7", 1897*

6-161

E. Boring (right)	m. ch. ell.
" " (low)	5-25-00 ✓ 4' 0"
" " (high)	63-50 ✓ 3' 45"
" " (low)	2-43-40 ✓ 4' 8"
" " (high)	41-00 ✓ 4' 8"
" " (high)	40-45 ✓ 4' 8"

Contdg - 17. Boring 5-47-151

NAMES AND DUTIES OF ASSISTANTS.

Alex. MacLean Chairman

E. H. MacLean Chairman

Joseph Johnson Chairman

Chr. Boileau Chairman

Thomas Ballo Chairman

Jacobs Kelly Present Chairman

For preliminary officials see book B.

BOOK A-250

INDEX DIAGRAM.

Township 29 S, Range 3 W

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE,

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will lay the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we are measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey

, Chain

, Chain

Subscribed and sworn to before me this }
day of , 189 }



WE,

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey

, Mound

, Mound

Subscribed and sworn to before me this }
day of , 189 }



WE,

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey

, Axmen

Subscribed and sworn to before me this }
day of , 189 }



I, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

, Flag

Subscribed and sworn to before me this }
day of , 189 }



East Boundary of S. 29 J. R. 5. M.

Survey commenced Oct. 4th 1847 and executed with a Guly Mountain transit with solar attachment.

I examined the adjustments of the transit and correct the level and collimation error, then to test the solar apparatus by comparing its indications, resulting from solar observations made during A. M. & P. M. hours with a true meridian determined by observations on Polaris. I proceed as follows; At the Cor. to Lts 29 & 30 S. R. 5 2 1/2 E 3. M. established by me Sept. 21, 1847 Latitude $38^{\circ} 15' N.$ Longitude $112^{\circ} 11' W.$ I set off $38^{\circ} 15'$ from the lat. arc; $4^{\circ} 42' S.$ on the decl. arc; and at $4^{\text{h}} 25^{\text{m}}$ P. M. l. m. t. determine with the solar a true meridian, and mark a point thereof on a stone firmly set in the ground 5. chs. N. of the corner. At $6^{\text{h}} 31^{\text{m}}$ P. M. l. m. t. I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5. chs. N. of my station.

October 4th 1847

October 5th at 7^h A. M. l. m. t. I lay off the azimuth of Polaris $1^{\circ} 33'$ to the west, and mark the true meridian thus determined, by cutting a small groove in the stone set Oct. 4th on which the true meridian falls 0.2 ins east of the mark determined by the solar.

At 8^h 30^m A. M. l. m. t. I set off $38^{\circ} 15'$ on the lat. arc; $4^{\circ} 54' S.$ on the decl. arc; and mark a point in the true meridian determined with the solar, by a cross on the stone already set 5. chs. N. of my station, this mark falls 0.4 ins east of the true meridian established by the Polaris observation.

The solar apparatus by P. M. & A. M.

East boundary of T. 29 S. R. 3. W. Continued

Chains	observations defining positions for two meridians, respectively about $0^{\circ}11'$ west and $0^{\circ}21'$ east of the meridian established by the Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.
	The magnetic bearing of the true meridian at $8^{\text{h}}45^{\text{m}}$ A. M. is $N. 15^{\circ} 51' W.$ The angle thus determined, reduced by the tables page 100, gives the mean mag. decl. $15^{\circ} 48' E.$
	I begin at the cor. above described and run
	North bet. Secs 32 & 36.
3.00	Only cedars & pines ascend
24.50	Gulch 20 ft. deep, comes S. E. Bridge. 500 ft. above L. cor. bears N. W. & S. E. descend.
34.90	Gulch. comes S. E. ascend.
40.00	Set a sandstone 16x12x8 in. 11 in. in the ground for 1/4 sec. cor. marked 1/4 on W. faces from which
	A cedar 15 in. in diam. bears N. $21^{\circ} 40' E.$
	86 lbs dist. marked 1/4 S. B. T.
	A cedar 8 in. in diam. bears S. $59^{\circ} 17' W.$ 50 lbs dist. marked 1/4 S. B. T.
80.00	Set a sandstone 14x10x7 in. 10 in. in the ground for cor. to Secs 25, 29, 32 & 36. marked 1 notch on S. & 5 notches on N. edges; from which
	A pine 8 in. in diam. bears N. $35^{\circ} 10' E.$ 79 lbs dist. marked T. 29. S. R. 3. W. 5. 29. 13. 1.
	A pine 8 in. in diam. bears S. $56^{\circ} 25' E.$ 20 lbs dist. marked T. 29. S. R. 3. W. 5. 02. 13. 1.
	2 cedar 6 in. in diam. bears S. $15^{\circ} 35' W.$ 60 lbs dist. marked T. 29. S. R. 3. W. 5. 36. 13. 1.
	A pine 6 in. in diam. bears N. $1^{\circ} 00' W.$ 65 lbs dist. marked T. 29. S. R. 3. W. 5. 26. 13. 1.
	Land. broken,
	Soil. Rocky & shale.
	Timber. Cedar. 4 P. m.
	Mountainous land. 80 cha.

ast-boundary of T. 29. R. 3. N. Continued.

0 hours	North bch. Secs 25 & 29.
	Enter cedar & pines. ascend 400 ft.
32.00	Ridge. bears E. & W. leave timber descend.
40.00	Set a trachyte 16x10x8 ins. 11 ins. in the ground for 1/4 sec. Cor. marked 1/4 on W. face, and raised a mound of stone 2 ft. base, 1/2 ft. high. W. of Cor. Site impracticable.
	A cedar 24 ins. in diam. bears S 76° 45' E 132 lbs dist: marked 1/4 S. B. T.
64.00	Gulch. comes S 85° 0' E.
67.00	Ascend in scattering cedar & pines.
80.00	Set a granite 14x14x12 ins. 9 ins. in the ground for cor. to Secs 20-24. 29 & 25. marked 2 notches on S. & 1 notch on N. edges; and raised a mound of stone 2 ft. base, 1/2 ft. high. W. of Cor. Site impracticable.
	A cedar 36 ins. in diam. bears N 10° 10' E 33 1/2 lbs dist: marked T. 29. S. R. 2 1/2 N. S 20. B. T.
	A pine 12 ins. in diam. bears S 85° 45' W 119 lbs dist: marked T. 29. S. R. 3. N. S. 26. B. T.
	A cedar 12 ins. in diam. bears N 28° 45' W 212 lbs dist: marked T. 29. S. R. 3. N. S. 24. B. T.
	Land. broken.
	Soil. Rocky. soil .
	Timber. Scattering Cedars & pines.
	Mountainous land 80. hrs.

	North bch. Secs 20 & 24.
	Ascend 200 ft.
4.00	Enter cedar & pines.
22.00	Ridge. bears E. & W.
22.50	Descend. leave cedar & pines.
40.00	Set a trachyte 16x12x6 ins. 9 ins. in the ground for 1/4 sec. Cor. marked 1/4 on W. face, and raised a mound of stone 2 ft. base, 1/2 ft. high. W. of Cor. Site impracticable.
	Enter flat.
46.00	Leave flat. ascend 200 ft.
75.00	Ridge. bears E. & W. descend.
80.00	Set a trachyte 14x8x5 ins. 9 ins. in the ground for cor. to Secs 15. 17. 20 & 24.

East boundary of S. 29. T. R. 3. M. Continued.

Diam.	marked 3 notches on W. E. edges; and raised a mound of stone 2 ft. base. 1 1/2 ft. high. W. of Cor. Pts. impracticable. Land. broken. Soil. Rocky. 4 $\frac{1}{2}$ in. salt. Timber. Scattering cedar & pines. Mountainous land 80 chs. Altitude - I set off 5° 03' S. on the decl. angr. and at 12 ^h M. l.m. b. observe the sun on the meridian the resulting lat. is 58° 18' N
North lat: Sec's 18 & 17.	Descend 70 ft.
6.00	Head of gulch. course G. W. ascend
12.00	Enter cedar & pine.
26.00	Ridge. bears E. E. W. descend.
40.00	Set a trachyte 14 x 12 x 4 inos. 9 inos. in the ground for 1/4 sec. Cor. marked 1/4 on W. face, from which A cedar 8 inos. in diam. bears N 63° 30' E 30 ft. dist. marked 1/4 S. B. T.
	A pine 6 inos. in diam. bears N 87° 30' W 21 ft. dist. marked 1/4 S. B. T.
74.00	Leave timber
80.00	Set a trachyte 10 x 10 x 4 inos. 10 inos. in the ground for Cor. to Sec's 8, 12, 15 & 17. marked 4 notches on S. E. 2 notches on W. edges; and raised a mound of stone 2 ft. base. 1 1/2 ft. high. W. of Cor. Pts. impracticable. Land. broken. Soil. Rocky. 4 $\frac{1}{2}$ in. salt. Timber. Scattering cedar & pines. Mountainous land 80 chs.
North lat: Sec's 3 & 12.	Descend.
18.00	Gulch. course G. W. 200 ft. below sec. cor. ascend 160 ft.
30.00	Ridge. bears G. W. & S. E. descend
40.00	Set a sandstone 16 x 12 x 7 inos. 11 inos. in the ground for 1/4 sec. Cor. marked 1/4 on

East-boundary of S 29. S. R. 3. W. Continued

face; and raised a mound of stone 2 ft. base 1/2 ft. high. N. of Cor. Pit impracticable.

57.50 Ravine. course N. W. ascend.

58.00 Ridge 200 ft. high. bears E. & W. desc.

62.00 Gulch. course N. ascend.

70.00 Ridge. bears E. & W. descend.

80.00 Set-a sandstone 16 x 12 x 8 in. 11 in. in

ground for cor. to Secs 1. 5. 8 1/2. marks 5 notches on S. E. 1 notch on N. edges; and raised a mound of stone 2 ft. base, 1/2 ft. high. N. of Cor. Pit impracticable.

Land. broken.

Rocky. 4th mali.

No timber!

Mountainous land 80 chs.

Earth bot. Secs 1 & 5.

Descend.

28.50 Dry wash 30' Chasmile 2 ft. deep. in
of ravine. course N. E. enter bottom.

40.00 Set-a sandstone 16 x 10 x 6 in. 11 in. in
ground for 1/4 sec. Cor. marked 1/4 on N. face;
and raised a mound of stone 2 ft. base,
1/2 ft. high. N. of Cor. Pit impracticable.

80.00 Set-temporary Cor. to Pts. 28 & 29. S.
(is 2 p. E. & S. W.)

Which I destroy Oct. 6." and make
permanent at

88.50 Set-a sandstone 20 x 14 x 10 in. 15 in.
in the ground, for cor. to Pts. 28 & 29. S.

Pt. 2 h E. & S. W. marked

28.5. on N. E.

2 h N. or S. E.

29.5. on S. W. E.

3 W. on N. W. faces. with 6 notches on
each edge; raised a mound of stone 2 ft.
base, 1/2 ft. high. S. of Cor. Pit
impracticable.

and 25 chs broken, 63.50 bottom.

Rocky. 4th mali.

at boundary S. 29. S. R. 2. W. Continued.

In
Mountainous land 25.00 cbs

Cctot 6.189

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North boundary of T. 29. S. R. & W.

On main: From the temporary cor. to Ls 28 & 29.
R. s. 2d & 3d N.

I now

West - on a random line along the N.
body. of T. 29. S. R. & W. setting
1/4 sec. El Sec. Cor. at intervals of 40 sec
at 80.00 chs and at 164.00 chs intersect
8.50 chs E. of the cor. to Secs 2.3.34 & 35
which is a lava rock 8x14x9 in. above
ground, marked ^{at} witnessed as
by the Surveyor General.

Thence I run

East - on a true line bet. Secs 2 & 35.

Enter scattering cedar & pine. descend.

1.50 Gulch. comes N. W. ascend.

16.00 Top of ledges. 500 ft. high.

26.50 Top of ledges. ascend gradually

42.50 " of ridge 1000 ft. above Sec Cor. bears
N. & S. descend. lava cedar & pine.

44.50 Set - a lava rock 18x14x7 in. 12 in
in the ground for 1/4 sec. Cor. marked
1/4 on N. face, and raised a mound of
stone 2 ft. base. 1/2 ft. high. N. of Cor.
Pits impracticable.

82.00 Ravine 800 ft. below ridge. comes N. as

84.50 Set - a iron stone 18x10x12 in. 12 in.

8 in the ground for Cor. to Secs 1.2.35 & 5
marked 5 notches on N. & 1 notch on E.
edges; and raised a mound of stone
2 ft. base. 1/2 ft. high. N. of Cor. Pits
impracticable.

Land broken

Soil. Rocky. 4th rate.

Lumber. Scattering scrub cedar & pine.

Mountainous land 84.50 chs.

9 East - on a true line bet. Secs 1 & 36.
Ascend.

18.00 Ridge. 150 ft. high. Bears N. W. & S. E. des

39.00 Enter bottom.

41.00 - a sandstone 18x10x8 in. 12 in. in

North bow of S. 29. I. R. 3. W.

2 miles	The ground of a 1/4 Sec. Con. marked 1/4 on N. corner and raised a mound of stones 2 ft. base. 1/2 ft. high. N. of Con. Site impracticable.
80.00	Intersect 8.50 chs. N. of Temporary Con. to S. 29 E 29. I. R. 3 2d 1/5. W. and establish some as described in survey of C. body. S. 29. I. R. 3. W. Land. broken & hilly. Soil. Rocky. 4 th soil. No timber Mountainous land 39 chs
	<u>October 6 " 1897.</u>

West boundary of T. 29. S. R. 3. W.

Chains

Oct. 7 at 8th A.M. C.M.T. I set off 38° 20' on the lat. arc; 5° 44' S. on the decl. arc; and determine a true meridian with the solar at the 84 deg. cor. bel: sec 1 8/6. on N. bdy. of Tp. which is a pine tree 14 mos. in diam. marked and witnessed as described by the Surveyor General.

Then I run

North bel: Sec 1 8/6. from the 1/4 sec. cor.

Ascend in scattering cedar & pine

13.00 Top of ridge. bears N. E. descend

26.00 Ravine. course S. E. ascend

40.00 Top of ridge. bears N. E. & N. W.

Set temporary Cor. to Lps 28 1/2 & 29. S. R. 5

3 3/4 W. which I this day make permanent
at

40.45 Set a trachyte 20x15x6-mos. 16-mos. in the
ground for Cor. to Lps 28 1/2 & 29. S. R. 5 3 3/4 W.
marked

28 S. on N. E.

3. W. on S. E.

28. S. on S. W. E.

4 W. on N. W. faces; with 6 matches on each
edge; and raised a mound of stone 2 ft;
base. 1 1/2 ft. high. S. of Cor. Pilis infractions
A pine 8 mos. in diam. bears 45°. 30° E 1 1/2 lbs
dist: marked T. 28. S. R. 5. W. S. 31. 10. T.

A pine 8 mos in diam. bears S 22° 40' E 40 lbs
dist: marked T. 29. S. R. 5. W. S. 6. B. T.

No other bearing trees within limits.

Land. broken,

Soil. Rocky. 4th soil.

Timber. Scattering cedar & pine.

Mountainous land 40.45-chs

North boundary of S. 29. d. R. 3. W.

Chains	From the temporary cor. to Sps 28 & 29. S. R. 3. 3/4 N.
	I run
	East on a random line bet. Secs 6 & 31.
40.00	S. temporary 1/4 sec. cor.
79.90	Intersect 45° E. of the cor. to Secs 5-6-31 3/32. which is a sandstone 10x14x8 in. above ground. marked & witnessed as described by the Surveyor General. thence I run
	West on a true line bet. Secs 6 & 31.
	Descend in scattering cedar & pine.
9.60	Gulch. course S. E. or east.
40.00	S. a trachyte 18x12x6 in. 12 in. in the ground. for 1/4 sec. cor. marked 1/4 on N. face; from which A pine 8 in. in diam. bears 430° 20' SW 38 E. dist. marked 1/4 S. B. T.
	A cedar 8 in. in diam. bears 446° 07' 24" E. dist. marked 1/4 S. B. T.
	Ob. 4" at this cor. I set off 5° 4" S. on the decl. arc; and at 12 ^h M. L. C. observed the sun on the meridian. the resulting lat. is 38° 20' N
49.80	Point of ridge. bears S. thence along S. slope of mountain. descending gradually
75.00	Ascend gradually to
79.90	The cor. to Sps 128 & 29. S. R. 3 3/4 N. Land. broken, Soil. Rocky. 1 st ratio. Timber. Scattering cedar & pine. Mountainous land 79.90 chs.

October 7th, 1897.

Boundaries of S. 24. I. R. 3. W.

Line designated	true bearing	Dist.	Latitudes			Departures
			N	S	E	
E. boundary	South	488.50	488.50			
N. boundary	West	484.40				484.40 ✓
W. boundary	South	40.45	40.45			
S. boundary	So. 20° E	447.15	447.09	2.60		
Convergency	East	479.85		479.85		.59 ✓
Totals			488.50	487.54	482.45	484.49 ✓
Error in lat:			487.54		482.45	
			.96	Error in dep.	2.64	

Note. For General Description see sub. divisions.

John J. Preckow
James Mc Garty
U.S. Deputy Surveyors.

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West bound' of S. 29. 1. R. F. W.

From the $\frac{1}{4}$ sec. cor. bet. Secs 1 & 6. on N.
bdy. of sp.

I run

South on a survey line along the N.
bdy. of the township

I find but few of the old corners on this
line and at 447.10 chains. the cor. to this
29 & 30 S. R. 6 & $\frac{1}{4}$ W. bears East 2.60 chs.
dist:

The true course of this line is therefore
S $6^{\circ}28'E$. and the dist. 5 miles. 47 chs
 $\frac{2}{15}$ lks

John J. Bruckner
Horner McCarley
U. S. Deputy Surveyors

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of _____, showing the respective capacities in which they acted:

_____, Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____, United States Deputy Surveyor, in surveying all those parts or portions of the _____, of the _____, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for _____.

_____, Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

scribed and sworn to before me this _____
day of _____, 1899 }



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from _____, United States Surveyor General for _____, bearing date of _____ day of _____, 189_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____ of the _____ meridian, in the _____ of _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor.

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 189_____ }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah March 13, 1899

The foregoing field notes of the survey of *East Salt & West Boundaries
of Township 29 S. R. 3 West of the Salt Lake Base and
Henderson, Utah*

executed by *John T. Beckon and Horace M. Clancy*
under his contract No. *205*, dated *October 20th*, 1896, having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Jacob W. Blaine

United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

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BOOK A-250

No. 3. B.

FIELD NOTES

OF THE SURVEY OF THE

*Subdivision of T. 29 S. R. 3. N.**of the Salt Lake Base and Meridian,
State of Utah.*

AS SURVEYED BY

*Sam J. Breckin, 1st Class M^cCarty, United States Deputy Surveyors
 under his Contract No. 208, dated October 20th, 1896
 Survey commenced October 4th, 1897
 Survey completed October 8th, 1897*

6-151

*Scale - (high) 15-16-10 1
 Closings 14-96 ✓*

Consty - 6-08-61 ✓

NAMES AND DUTIES OF ASSISTANTS.

A. W. Morrison Chairman

C. L. Morrison Chairman

Joseph Johnson Chairman

Chas. Tolman Chairman

Thomas Bates Recruit & Wardenman

Joseph Zollig Recruit & Wardenman

For preliminary affidavits see book C.

Volume

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BOOK A-250

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Township 29th, Range 3rd W.

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and _____

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

_____, Chainman.

_____, Chainman.

Subscribed and sworn to before me this _____
day of _____, 1899 }



WE, _____ and _____

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

_____, Moundman.

_____, Moundman.

Subscribed and sworn to before me this _____
day of _____, 1899 }



WE, _____ and _____

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

_____, Axman.

_____, Axman.

Subscribed and sworn to before me this _____
day of _____, 1899 }



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

_____, Flagman.

Subscribed and sworn to before me this _____
day of _____, 1899 }



Subdivision of C. & G. R. R. Co. W.

Survey Commenced October 4th 1897, and
executed with Gurley Surveyor transit with
solar attachment.

I examined the adjustments of the transit
and correct the level and collimation errors,
then to test the solar apparatus by comparing
its indications, resulting from solar observations
made during A. M. & P. M. hours, with a true
meridian determined by observations on
Polaris I proceed as follows;

At the cor. to Secs 1. 2. 3. 5 & 36. on S. side
of the township established by me. Lat.
41° 18' 15" N. Latitude 38° 15' N. Longitude 112°
12' W. I set off 38° 15' on the lat. arc, 4° 45'
S. on the decl. arc, and at 7^h 05^m P. M. L.
m. c. determine with the solar a true
meridian, and mark a point thereof on
a stone firmly set in the ground 5: chs.
E. of the cor.

At 6^h 31^m P. M. L. m. c. I observe Polaris at
eastern elongation, in accordance with Manual
of Instructions, and mark a point in
the line thus determined, on a piece of iron
in the ground. 5: chs. W. of my station.

October 4th 1897

October 5th at 7^h 15^m A. M. l. m. c. I lay off
the azimuth of Polaris 1° 55' to the west, and
mark the true meridian this determined by
cutting a small groove in the stone set
Oct. 4th on which the true meridian falls 0.15 in.
west of the mark determined by the solar.

At 8^h 10^m A. M. l. m. c. I set off 38° 15' on
the lat. arc, 4° 55' S. on the decl. arc, and
mark a point in the true meridian determined
with the solar by a cross on the stone already
set 5: chs. W. of my station, this mark falls
0.3 in. east of the true meridian established
by the Polaris observation.

The solar apparatus by P. M. & P. M.
observations define positions for true meridians
respectively about 0.21" east & 0.16" west of

Subdivision of U. S. G. I. T. O. C. Cont'd.

Blocks

The meridian established by the Polar
observations.

The magnetic bearing of the true meridian
at 85°S. = 2.0°. is N. 10° 31' W. The angle
thus determined, reduced by the table, page
100, gives the mean May. decl. 16° 28' E.

I begin at the cor. to sec. 1, 2, 35 & 36, as
before described.

And run

W. 0° 51' W. bet. des 35 & 36.

Ascend over broken country through
scattering cedars and pines.

8.25	Top of ridge bears E. and W. descending.
16.50	Bottom of canon comes W.
36.50	Ascend 400 ft over ledges.
40.00	Point of ridge slopes W. descending 300 ft. Set a trachyte 16x8x4 ins. 11 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable.
42.00	Gorge 100 ft. deep comes S. W. ascend over ledges.
54.00	Top of ridge bears N.W. and S.E. descending over ledges and loose stone.
67.50	Gorge 100 ft. deep comes N. W. ascending
77.80	cliffs 35 ft. high descending.
- 80.00	Set a trachyte 20x12x10 ins. 15. ins. in the ground for cor. of sec. 25, 26, 35 and 36. marked with 1 notch on S. and E. edges, and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable.
	Sand broken.
	Soil rocky - 4 th rate.
	Timber scattering cedars and pines.
	Mountainous land - 80.00 chs.

40.00	Each on a random line bet. sec. 25 and 36 Set temp. $\frac{1}{4}$ sec. cor.
-------	--

Subdivision of T. 29 S. R. 3 W. Continued

Chains 80.00	Intersect E. bdy of T. 29 at the cor. of secs. 25, 29, 32 and 36, as heretofore described. Then I run West on a line line bet. secs. 25 and 36 Ascend 800 ft. in scattering cedars and pines. Top of ridge bears N. and S. descending gradually. Step descent.
28.00	Descent gradually.
30.00	Step descent.
38.00	Descent gradually.
40.00	Set a sandstone 20x16x8 ins. 15 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face, and raised a mound of stone 2 ft. by 1 1/2 ft. high N. of cor. Pits imperceptible.
43.00	Step descent for 800 ft.
71.00	Gulch comes N. W. ascend.
73.00	Top of ridge bears N. and S. descend
80.00	The cor. of secs. 25, 26, 35 and 36. Being broken Soil rocky - 4 th rate. Limey. scattering cedars and pines. Mountainous land 80.00 chs.

Chains 40.30	West on a random line bet. secs. 26 and 35 To a point 1 1/2 tho. S. of the 1/4 sec. cor. bet. secs 26 and 35, which is a white sandstone 6x10x9 ins above ground marked and witnessed as described by the surveyor general. Then I run. S 84° 50' E on a line line bet. secs 26 and 35 Through scattering cedars and pines, ascending Top of ridge bears N.E. and S.W. descending over high ledges
18.00	Gulch comes S. W. ascend
38.25	The cor. of secs 25, 26, 35 and 36 Being broken Soil rocky - 4 th rate. Limey. scattering cedars and pines Mountainous land 40.30 chs.
40.30	

Subdivision of T. 29 S. R. 3 W. continued

claims	
	N 0° 0' W bet. secs. 25 and 26
	Through scattering cedars and pines descend
8.00	Canyon course S. W. ascend
29.00	Cross ridge bears N.E. and S.W.
40.00	Set a lava rock 18x10x7 ins. 10 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face and raise a mound of stone 2 ft. 6 ins $1\frac{1}{2}$ ft. high W. of cor. Pit impracticable.
47.00	Cross ridge bears N.W. and S.E. descend
70.00	Gulch course S.E.
71.00	Ascend. leaving cedars
- 80.00	Set a lava rock 18x12x6 ins. 12 ins in the ground for cor. of secs. 23, 24, 25 and 26. marked with 2 notches on S. and 1 notch on E. edges and raise a mound of stone 2 ft. 6 ins. $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable Band broken. Soil rocky - 4 th rate Timber, scattering cedars and pines. Mountainous land 80.00 clrs.

	East on a random line bet. secs. 24 and 25
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.04	Intersect E. bdy. of Tp. at the cor. of secs. 20, 24, 25 and 29. as heretofore described. Then I run.
	West on a tiny line bet. secs. 24 and 25
	Ascend 200 ft.
2.25	Enter cedars and pines
20.00	Point of ridge falls S. W. descend 100 ft.
25.00	Leave cedars and pines.
27.15	Bottom of gulch
28.00	Ascend 150 ft.
32.00	Enter cedars and pines.
40.02	Set a trachyte 24x6x5 ins. 18 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face. from which a pine 16 ins. diam. bears N 80° E 14 lbs

Subdivision of T. 29 S. R. 3 W. Continued

Chamis

dist. marked $\frac{1}{4}$ S. 24 B. T.

A cedar 14 ins. diam. bears N 75° W 21 ft. es

dist. marked $\frac{1}{4}$ S. 24 B. T.

40.25 Top of ridge bears N.E and S.W. descending
250 ft.

53.00 Enter small flat.

55.00 Ascend

65.00 Top of ridge bears N. and S. descending 200
ft. leaving cedars and pines. Hence ascending
100 ft over ledges.

- 80.04 The cor. of secs 23, 24, 25 and 26
land broken.

Soil rocky - 4th rate

Limber - scattering cedars and pines.

Mountainous land 80.04 chs.

October 5 1897

40.00 Meet on a random line bet. secs. 23 and 26
to a point 23 chs. S of the $\frac{1}{4}$ sec. cor.
bet. secs. 23 and 26, which is a granite
6x12x12 ins. above ground, marked and
witnessed as described by the survey
general.

Hence from.

S 89° 40' E on a true line bet. secs. 23 and 26
through scattering cedars and pines
ascend.

12.60 Top of ridge. bears N. and S. descending

40.60 The cor. of secs. 23, 24, 25 and 26.
land broken.

Soil rocky - 4th rate

Limber - scattering cedars and pines
mountainous land 40.60 chs.

0° 01' W bet. secs 23 and 24

Ascend over conglomerate ledges 100 ft.

8.00 Cross ridge - bears E. and W. Enter
cedars and pines.

40.00 Set a lava rock 10x12x5 ins. 1.0 ins in
the ground for $\frac{1}{4}$ sec. cor. marked

Subdivision of T. 29 S. R. 3 W. Continued

chains

	44 on W. face. from which a pine 6 ins. diam. bears N 62° 05' E 16 lbs. dist. marked 44 S. 24 B. T.
	A pine 8 ins. diam. bears S 8° 20' W 18 lbs. dist marked 44 S. 23 B. T.
	ascend on W. side of mountain
62.00	Cross high ridge. bears N. W. and S. E. Leave cedars.
67.00	Descent gradually.
73.00	Descent rapidly along east side of moun- tain.
- 80.00	Set a lava rock 17x14x7 ins 12 ins in the ground for cor of secs 13. 14. 20 and 24 marked with 3 notches on S. and 1 notch on E. edges. and raise a mound of stone 2 ft. base 1/2 ft. high W. of cor. Pits impracticable. Sand broken. Soil rocky - 4 th. rate Lumber - scattering cedars and pines mountainous land 80.00 chs.

	East on a sandstone line bet' secs. 13 and 24
40.00	Set temp. 44 sec. cor.
80.00	Intersect E. bdy of Tp. 5 ins. N. of cor. of secs 13. 17. 20 and 24 as heretofore described
	Hence I run.
	N 89° 58' W on a true line bet. secs. 13 and 24 descent gradually.
40.05	Set a trachyte 18x10x6 ins. 12 ins in the ground for 44 sec. cor. marked 44 on N. face. from which a pine 8 ins. diam. bears S 64° 10' E 70 lbs. dist. marked 44 S. 24 B. T.
	A cedar 9 ins. diam. bears S 1° W 90 lbs. dist. marked 44 S. 24 B. T.
	Leave cedars and pines.
49.50	Descent 300 ft.
50.60	Gulch comes N. W. Ascend 400 ft.

Subdivision of T. 29 S. R. 3 W. Continued.

Chains

- 70.00 Top of ridge bears N.W. and S.E. descended
50 ft.
- 74.10 Bottom of ravine comes N.W. ascending
- 80.10 The cor. of secs. 13, 14, 23 and 24
Sand broken
Soil rocky. - 4th rate
Limber scattering cedars and pines.
mountainous land 80.10 chs.
October 6. At this cor. I set off. $5^{\circ} 26' 5''$
the def. arc; and at 12 m. L.m.t. ob-
serve the sun on the meridian; the
resulting lat. is $38^{\circ} 18'$

West on a random line bet. secs. 14 and 23

- 40.00 Set temp. px sec. cor.
81.00 Intersect N. and S. line 2.32 chs $5^{\circ} 18' 8''$ E. of Cor
of secs. 14, 15, 22 and 23 which is a
iron stone 6x16x10 ins. above ground
marked and witnessed as described by
the surveyor general.

I destroy all marks pertaining to
secs. 14 and 23 and
Set a lava rock 16x11x7 ins. 18 ins. in
the ground for closing cor. to secs 14
and 23. marked C.C. on E. face with
3 grooves on S. and 2 grooves on E. faces
and raise a mound of stone 2 ft. base
1 $\frac{1}{2}$ ft. high E. of cor. Pits impracticable
therefore I run

East on a true line bet. secs. 14 and 23
ascending in scattering cedars and pines.

- 41.00 Set a lava stone 14x11x7 ins. 10 ins. in
the ground for px sec. cor. marked px on
N. faces. and raise a mound of stone 2 ft.
base 1 $\frac{1}{2}$ ft. high N. of cor. Pits imprac-
ticable.

57.00 Top of ridge bears N.W. and S.E. descended

74.10 The cor. of secs. 13, 14, 23 and 24

Sand broken

Soil rocky

Subdivision of T. 29 S. R. 3 W. continued.

chains | Timber scattering cedars and pines
mountainous land 81.00 chs.

40.00 N^o 01' W bet. secs. 13 and 14
Through scattering cedars and pines.
Set a trachyte 10x10x7 ins. 10 ins in the
ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W.
face. and raise a mound of stone 2 ft. base
 $\frac{1}{2}$ ft. high W. of cor. Pits impracticable
Set a trachyte 12x8x7 ins. 8 ins in the
ground for cor. of secs 11. 12. 13 and 14
marked with 4 notches on S. and 1 notch
on E. edges. and raise a mound of stone
2 ft. base $\frac{1}{2}$ ft. high. W. of cor.
Pits impracticable
and broken
Soil rocky - 4th rate.
Timber scattering cedars and pines
mountainous land 80.00 chs.

October 6 1897

October 7. At 8 A.M. 40 min. N. E. S. set
off. $38^{\circ}18'$ Nor the lat. circ. $50^{\circ}43'5$ on the
dip. circ. and determine a true me-
ridian with the solar at the cor.
of secs. 11. 12. 13 and 14.

Hence I run,

$84^{\circ}58'$ E on a random line bet. secs 12 and 13
Set temp $\frac{1}{4}$ sec. cor.
Intersect E. bdy of Tp. 10. ths N. of cor.
of secs. 8. 12. 13 and 17. as heretofore
described.
Hence I run.
 $N 89^{\circ}54' W$ on a true line bet. secs 12 and 13
Through scattering cedars and pines
descending 15 ft.
Head of ravine. comes N. ascending 200 ft.
Top of ridge bears N. W. and S. E.
Descending 200 ft.
Ravine comes N. W.

Subdivision of T. 29 S., R. 3 W. continued

- 36.00 Ascend 125 ft.
 40.00 Set a trachyte 12x10x8 ins. 8 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face. from which
 a pine 12 ins. diam. bears N $32^{\circ}17' E$ 52 lbs.
 dist. marked $\frac{1}{4}$ S. 12 B. T.
 a pine 6 ins. diam. bears S $47^{\circ}02' E$ 29 lbs.
 dist. marked $\frac{1}{4}$ S 13 B. T.
 51.00 Top of ridge bears N. and S. descend 70 ft.
 58.00 Gulch comes N.E. ascend
 80.06 The cor. of secs 11. 12. 13 and 14
 land broken
 Soil rocky 4th rate
 Limber scattering cedars and pines
 mountainous along 80.06 chs.

- West on a random line bet. secs 11 and 14
 40.00 Set temp $\frac{1}{4}$ sec. cor.
 82.20 Intersect N. and S. line 5.60 chs. S $0^{\circ}35' E$ of cor.
 to secs 10, 11, 14 and 15, which is a
 grey sandstone 6x10x10 ins above
 ground. marked and witnessed as
 described by the surveyor general.
 I destroy all marks pertaining to secs.
 11 and 14 and.
 Set a trachyte 17x13x8 ins. 12 ins in
 the ground for closing cor. to secs 11 and 1
 marked C. C. on E. with 4 grooves on S
 and 2 grooves on E. faces and raise a
 mound of stone 2 ft. base $1\frac{1}{2}$ ft high
 E. of cor. Pts impracticable.
 Hence I run
 East on a true line bet. secs 11 and 14
 42.20 Set a trachyte 16x12x7 ins. 11 ins in the
 ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N.
 face. and raise a mound of stone 2 ft.
 base $1\frac{1}{2}$ ft. high. N. of cor.
 Pts impracticable
 Ascend
 57.00 Top of ridge 100 ft high bears N. and S.

Subdivision of T. 29 S. R. 3 W. Continued

- 64.20 Ravine. course N. W. ascend
 72.00 Top of ridge bears N. and S. descend
 - 82.20 The cor. of secs. 11, 12, 13 and 14.
 being broken

Soil rocky - 4th rate

Timber, scattering cedars and pines
 mountainous land 82.20 chs.

October 7. At this cor. I set off $5^{\circ}49'$
 S. on the decl. arc. and at 12 m. L. m. t.
 observe the sun on the meridiane;
 the resulting lat. is $38^{\circ}18'W$

$NO^{\circ}01'W.$ bet. secs 11 and 12

Through scattering cedars and pines.

40.00 Set a lava stone 12 x 10 x 10 ins. 8 ins in the
 ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face
 and raise a mound of stone 2 ft. base
 $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable

55.00 Cross ridge bears N. E and S. W.

80.00 Set a lava stone 16 x 8 x 8 ins. 11 ins. in
 the ground for cor. of secs 12, 11 and 12.
 marked with 5 notches on S. and 1 notch
 on E. edges from which

a pine 12 ins. diam. bears $N43^{\circ}45'E$ 75 lbs.
 dist marked T. 29 S. R. 3 W. S. 1 B. T.

A pine 10 ins diam. bears $S39^{\circ}05'E$ 31 lbs.
 dist marked T. 29 S. R. 3 W. S. 12 B. T.

A pine 10 ins. diam. bears S. $70^{\circ}W$ 29 lbs.
 dist. marked T. 29 S. R. 3 W. S. 11 B. T.

A pine 6 ins. diam. bears $N25^{\circ}55'W$ 35 lbs.
 dist. marked T. 29 S. R. 3 W. S. 2 B. T.
 being broken.

Soil rocky - 4th rate.

Timber - scattering cedars and pines.

Mountainous land 80.00 chs

\$80.00 "per" a random line bet. secs 1 and 12

40.00 Set Lemp. $\frac{1}{4}$ sec cor.

Intersect E. edge. 1/2. 5 lbs. S of cor. of

Subdivision of T. 29 S. R. 3 W. Continued

secs. 1. 5. 8 and 12 as metopane described
Shenck I run.

N. 89° 56' W on a true line bet. secs 1 and 12

Through scattering cedars and pines descend

13.50 Roving 100 ft. deep comes N. ascend

19.50 Top of ridge bears N.E. and S.W. descending

30.00 Roving 60 ft. deep comes N.E. ascending

40.04 Set a lava stone 14x7x6 ins. 10 ins in
the ground for px sec. cor. marked px on
N. face and raise a mound of stone 2 ft.
base 1/2 ft. high N. of cor. Pits imprac-
ticable

descending.

59.95 Roving comes N.E. ascending

74.00 Cross ridge bears N.C. and S.W.

80.08 The cor. of secs 1. 2. 11 and 12
land broken

Soil rocky & ^{the} rate

Limber Scattering cedars and pines.

Mountainous land 80.08 clos.

October 7 1887

West on a random line bet secs 2 and 11

Set temp. px sec. cor.

83.42 Intersect N. and S. line, 7.04 chs. 50:50 E. of cor.
of secs 2. 3. 10 and 11. which is a lime-
stone 6x10x10 ins above ground
marked and witnessed as described
by the surveyor general.

I destroy all marks pertaining to secs
2 and 11 and

Set a lava stone 14x8x6 ins. 10 ins in
the ground for closing cor. to secs 2 and 11
marked C. C on E. faces with 5 grooves
3 and 2 grooves on E. faces and raise a
mound of stone 2 ft base 1/2 ft high E.
of cor. Pits impracticable

Shenck I run

East on a true line bet. secs 2 and 11

Through scattering cedars and pines, descend

Subdivision of T. 29 S. R. 3 W. continued

chains	
4.65	Gulch comes N.W. asceng
11.50	Top of ridge bears N.W. and S.E., descend 150 ft.
23.50	Gulch comes N.W. asceng 75 ft
29.50	Top of ridge bears N.W. and S.E. descending 50 ft.
30.00	Ravine comes N.W. asceng 75 ft.
37.00	Ridge bears N.W. and S.E. descending.
43.82	Set a lava stone 16x10x4 ins. 11 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face. and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable
44.00	Ravine comes N.W. asceng
60.50	Top of ridge bears N.W. descend
78.40	Ravine comes N.E. asceng.
- 83.82	The cor. of secs 1, 2, 11 and 12 Bank broken Soil rocky 4 th rate Limber scattering cedars and pines Mountainous land 83.82 chs

40.00	N $0^{\circ} 01'$ W. on a random line bet. secs 1 and 2. Set temp $\frac{1}{4}$ sec. cor.
88.30	Intersect N. bdy. of T.P. at cor. of secs. 1, 2, 35 and 36. Thence I run
	S $0^{\circ} 01'$ E on a true line bet. secs 1 and 2 descend
5.00	Ravine comes N.W. asceng along mountain side
48.30	Set a lava stone 24x6x6 ins. 16 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face and raise a mound of stone 2 ft base $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
68.00	Enter scattering cedars and pines. descend
74.00	Enter ravine comes N.E.
82.30	Leave ravine asceng gradually.
- 88.30	The cor. of secs 1, 2, 11 and 12 Bank broken Soil rocky 4 th rate Limber scattering cedars and pines Mountainous land 88.30 chs.

October 8 1897

Subdivision of T. 29 S. R. 3 W. Continued

General Description

The land embraced in this survey
is all rough, rocky mountains,
totally unfit for agriculture.

There is no water on the part covered
by this survey.

There is no mineral found in the
township.

There are no settlers or improvements
within this survey.

The timber is all scrub cedar and
pines used for wood only.

John T. Breckon
Former Mc Baity
U.S. Deputy Surveyor

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Subdivisions of T. 2d. S. R. 3. M.

Chains.

From the cor. to Secs 2. 3 - 34 & 35 on
S. bdy. of Sp.

I run

North on a resurvey line bet. Secs 34 & 35

40.10 The 1/4 Sec. Cor. bears West 21 chs dist.

80.20 The cor. to Secs 26-27. 34 & 35 bears West
112 chs dist.

The true course of this line is therefore No: 18° W. and dist.
80.20 chs.

North on a resurvey line bet. Secs 26 & 27.

40.15 The 1/4 Sec. Cor. bears West 17 chs dist.

80.30 The cor. to Secs 22. 23. 26 & 27. bears West
36 chs dist. The true course of this line is
therefore No: 15° W. & the dist: 80.30 chs.

North on a resurvey line bet. Secs 32 & 23.

40.0.30 No trace of old corner.

82.10 The cor. to Secs 14, 15. 22 & 23. bears West
43 chs dist. The true course of this line
therefore is No: 18° W. and the dist: 82.10 chs.

North on a resurvey line bet. Secs 14 & 15.

40.0.0 No trace of old corner.

83.28 The cor. to Secs 10. 11. 14 & 15 bears West
125 chs dist. The true course of this line therefore
is No: 53° W. and the dist: 83.28 chs.

North on a resurvey line bet. Secs 10 & 11.

40.0.0 No trace of old corner

81.44 The cor. to Secs 1. 3. 10 & 11. bears West 126
chs dist. The true course of this line therefore
is No: 56° W. and the dist: 81.44 chs.

North on a resurvey line bet. Secs 2 & 3.

40.0.0 No trace of old corner

81.26 The cor. to Secs 2. 3. 34 & 35. on N. bdy of Sp. bears
West 99 chs dist. The true course therefore is
No: 40° W. and the dist: 81.26 chs

John J. Buckland
Homer McCarry
U.S. Deputy Surveyors

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of _____ showing the respective capacities in which they acted:

_____, Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____, United States Deputy Surveyor, in surveying all those parts or portions of the _____

of the _____

meridian, _____ of _____, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for _____

_____, Chainman.

_____, Chainman.

_____, Moundman.

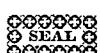
_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

scribed and sworn to before me this _____
day of _____, 189 _____ }



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from United States Surveyor General for bearing date of the day of , 180 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for , the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of of the meridian, in the of , which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor.

Subscribed by said , and sworn to before me }
this day of , 180 }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Ut, March 13, 189

The foregoing field notes of the survey of the
2d South Range 3 West of the Salt Lake Base and
Meridian, Utah

executed by *John T. Jackson* as Surveyor of the said surveys
under his contract No. 208, dated *October 20th*, 1896, having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the

Jacob T. Jackson

United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in
has been correctly copied from the original notes on file in this office.

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BOOK A-250

30.3.13

FIELD NOTES

OF THE SURVEY OF THE

South East boundaries of West Virginiaof the Salt Fork Standard Meridian,Ohio River

AS SURVEYED BY

John L. Deacon & Son, United States Deputy SurveyorsUnder Contract No. 408, dated October 20th, 1896Survey commenced October 5th, 1896Survey completed October 11th, 1896

W. Boly (high) m. ch. obs - 2-32-50 ✓ $\frac{1}{2}$
W. " " (low) 1-74-95 ✓ $\frac{1}{2}$
E " (high) 6-08-90 ✓ $\frac{1}{2}$
Closing 15-90 ✓

NAMES AND DUTIES OF ASSISTANTS.

Alex. Morrison Chairman

C. E. Morrison Chairman

Thomas Bates Chairman of Grounds

In preparation of exhibits see last page

6-161

Volume

#

R0250

BOOK A-250

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Township _____, *Range* _____

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30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

WE, and

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

....., Chainman.

....., Chainman.

Subscribed and sworn to before me this

day of, 189 }



WE, and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., Moundman.

....., Moundman.

Subscribed and sworn to before me this

day of, 189 }



WE, and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., Axman.

....., Axman.

Subscribed and sworn to before me this

day of, 189 }



I, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., Flagman.

Subscribed and sworn to before me this

day of, 189 }



North Boundary of C. & G. S. P. W.

Survey commenced October 8, 1897, and executed with a Gurley Mountain transit with solar attachment.

I examine the adjustments of the transit and correct the level and collimation errors, then to test the solar apparatus by comparing its indications resulting from solar observations made during A. M. & P.M. hours, with a true meridian determined by observations on Polaris. I proceed as follows:

Oct. 8th at the cor. to Obs. 28 & 29. S. R. 2nd E. 1st N. which I established October 5, 1897. Latitude $38^{\circ} 20'$ G. Longitude $112^{\circ} 11' W.$ I set off $38^{\circ} 20'$ on the lat. arc; $6^{\circ} 14' S.$ on the decl. arc; and at $4^{\circ} 10' = P.M. C.m. t.$ determine with the solar a true meridian, and mark a point thereof on a stone firmly set in the ground 5 chs. N. of the cor.

At $6^{\text{th}} 15' = P.M. C.m. t.$ I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point on the line thus determined, on a plug driven in the ground 5 chs. N. of my station.

(October 8th 1897)

October 9th at $7^{\text{th}} 10' = A.M. C.m. t.$ I lay off the azimuth of Polaris $1^{\circ} 35'$ to the west, and make the true meridian thus determined, by cutting a small groove in the stone set October 8th on which the true meridian falls 0.4 mils east of the mark determined by the solar.

At $7^{\text{th}} 45' = A.M. C.m. t.$ I set off $38^{\circ} 20'$ on the lat. arc; $6^{\circ} 30' S.$ on the decl. arc; and mark a point in the true meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station, this mark falls 0.4 mils east of the true meridian established by the Polaris observation.

The solar apparatus by P.M. & A.M. observations defines positions for true

North boundary of T. 29. S. R. 21. E. Continued.

Chains

meridians, respectively about $0^{\circ}21'$ west and $0^{\circ}21'$ east of the meridian established by the Polaris observation. Therefore I conclude that the adjustments of the instrument are satisfactory.

At 8^{th} A.M. the magnetic bearing of the true meridian is $N.15^{\circ}53'W.$ The angle thus determined, reduced by the table, page 100, gives the mean Mag. decl. $15^{\circ}50' \frac{E}{S}$.
I begin at the Cor. to Sps 28 & 29. S.
R's 21 & 3. W. as before described
and run

East on a random line bet. Sps 28 & 29. S.
sitting temporary $\frac{1}{4}$ sec. and sec. cor. at
intervals of 4000 cho. and at 327.45 cho
intersect 15.40 cho. north of the cor. to Sps
28 & 29. S. R's 2 & 2½ W. as heretofore de-
scribed. I destroy all marks pertaining
to R. 2½ W. from old corner and
set a limestone $20 \times 8 \times 7$ in. 10 in. in the
ground for cor. of Sps. 28 & 29. S. R. 2½ W.
marked

$02^{\circ}21'W.$ on $N.8\frac{1}{2}E$

28^{th} N. 29. S. on S. faces; with c. geodesic on N.8½
W. faces and raised a mound of stone
 3 ft. base. 3 ft. high. W. of Cor. Pits imprac-
ticable.

Thence I run

West on a true line bet. Secs 1 & 36

Descend 350 ft.

28.00 Ravine. course S. W. ascend.

40.00 Set a lava rock $18 \times 12 \times 8$ in. 12 in. in the
ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face,
and raised a mound of stone 2 ft. base,
 $1\frac{1}{2}$ ft. high. N. of Cor. Pits impracticable.

60.00 Lip of ridge. bears N.E. & S.W. entire
scattering mahogany. descend.

- 80.00 Set a brachyte $24 \times 12 \times 4$ in. 18 in. in the
ground for cor. to Secs 1, 2, 3, 5 & 36 - marked
1 notch on E. & 5 notches on N. edges; and
raised a mound of stone 2 ft. base. 1 ft. high.

North boundary of S. 29. S. R. 2 $\frac{1}{2}$ W. Continued.

ans

W. of Cor. Pilis impracticable.
 A pine 12 in. in diam. bears N 11° 50' W
 96 lbs dist. marked T. 28. S. R. 2 $\frac{1}{2}$ W. S. 35. B. T.
 No other bearing trees within limits.
 Land. broken.
 Soil. Rocky, 4 $\frac{1}{2}$ salin.
 Limber. Scattering Mahogany.
 Mountainous land 80 chs.

October 8th 1897

West on a true line bet. Secs 2 & 3/55.
 Descend in scattering cedar & pines over
 steep side hill.

40.00 Set a sandstone 16 x 14 x 8 in. 11 in. in
 the ground for 1/4 sec. Cor. marked 1/4 on
 N. face; from which
 A pine 12 in. in diam. bears N 48° E 37' W
 dist. marked 1/4 S. 35' B. T.

A cedar 6 in. in diam. bears S 11° 50' E 18'
 lbs. dist. marked 1/4 S. 2. B. T.

43.50 Gulch 1200 ft. below sec. cor. course N. W.
 Descend gradually

70.00 Cross point of ridge, bearing N. W. descend
 150 ft.

78.00 Enter bottom of canon. course S. W.

78.50 Dry wash. 40 lbs mdc. 4 ft. deep. course S. W.

80.00 Set a trachyte 14 x 10 x 4 in. 9 in. in the ground
 for cor. to secs 2-3-34 & 35 marked 2 notches
 on E. & 4 notches on W. edges; and raised
 a mound of stone 2 ft. base. 1/2 ft. high
 W. of cor. Pilis impracticable.

A pine 7 in. in diam. bears S 80° E 62' W
 dist. marked T. 29. S. R. 2 $\frac{1}{2}$ W. S. 2. B. T.

A pine 8 in. in diam. bears S 70° W 20' W
 dist. marked T. 29. S. R. 2 $\frac{1}{2}$ W. S. 3. B. T.

No other bearing trees within limits
 Land. broken.

Soil. Rocky, 4 $\frac{1}{2}$ salin.

Limber. Scattering cedar, pines & mahogany.
 Mountainous land 80 chs.

North boundary of S. 24. T. R. 24. W. Continued.

O am	October 10 th 1897. I set off 6:58 from the decl. arc; and at 12 th M. C. m. b. observe the sun on the meridian. The resulting lat. is 38° 20' at the cor. to Secs 2. 3. 34 & 35. hence I run
2	Heat. on a true line bet. Secs 3 & 34. Ascend on scattering cedar & pine. Point of ridge. 50 ft. high. falls S. W. descend. Foot of mountain. bears N. W. & S. E. descend over rolling flat. Set a trachyte 17 x 8 x 4 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; from which A cedar 8 ins. in diam. bears $872^{\circ} 30' 872$ the dist. marked 1/4 S. 34. 18. 7. A cedar 6 ins. in diam. bears $844^{\circ} 45' 773$ the dist. marked 1/4 S. 3. 15. 7. Leave cedar & pine. Set a trachyte 16 x 8 x 4 ins. 11 ins. in the ground for cor. to Secs 3-4. 8 & 34. marked 3 notches on E. & W. edges; and raised a mound of stone 2 ft. base. 1 ft. high. W. of Cor. Pits impracticable. Land. Broken & rolling. Soil. Rocky. 4 th rate! Timber. Scattering Cedars & pines. Mountainous land 32. 50 cho.
III.	Heat. on a true line bet. Secs 4 & 33. Descend over rolling flat. Set a trachyte 16 x 12 x 7 ins. 11 ins. in the ground for 1/4 Sec. cor. marked 1/4 on N. face; and raised a mound of stone 2 ft. base. 1 ft. high. W. of Cor. Pits impracticable. Set a sandstone 14 x 10 x 6 ins. 9 ins. in the ground. for Cor. to Secs 4. 5. 32 & 33. marked 4 notches on E. & 2 notches on W. face; and raised a mound of stone 2 ft. base. 1 ft. high. W. of Cor. Pits impracticable. Land. rolling. Soil. Rocky & Granilly 3 rd rate,
4	Heat. on a true line bet. Secs 4 & 33. Descend over rolling flat. Set a trachyte 16 x 12 x 7 ins. 11 ins. in the ground for 1/4 Sec. cor. marked 1/4 on N. face; and raised a mound of stone 2 ft. base. 1 ft. high. W. of Cor. Pits impracticable. Land. rolling. Soil. Rocky & Granilly 3 rd rate,

North boundary of T. 24. S. P. 21. W. Continued.

chains

No timber.

Oct-10" 1897. at 2^h, 15^m P.M. C.m. E. I set off 38° 20' on the lat. arc; 6° 04' S. on the decl. arc; and determine a true meridian with the solar. at the cor. to sec's 4. 5. 32.
W. 100.

2

West - on a true line betw. sec's 5- & 32.

Descend gradually over flat:

9.75 Dry wash 15'-lks wide, 2¹/₂ ft. deep. comes N. W.

18.60 Dry wash 15'-lks wide, 2¹/₂ ft. deep. comes N.

22.15 Road. bears N. W. & S. E.

27.45 The cor. to this 28 & 29 S. R. 52 & 53 M.

Land. rolling flat:

Ast. Rocky & Gravelly 3rd rate.

No timber.

October 10" 1897.

East boundary of T. 29 S. R. 26 W.

notes Oct. 11th 1897. At 8^h 15^m A. M. C. m. b. I set off 38° 15' on the lat. arc; 7° 15' is on the decl. arc; and determine a true meridian the solar. at the Cor. to Thos 29th & 30th S. R. 26 W. as heretofore described.

Thence I run

North along E. side of Sec. 36.
Descend.

- 18.60 Thos 1/4 Sec. Cor. bet. secs 31 & 36. as heretofore described. I destroy all marks pertaining to Sec. 36
- 29.00 Head of ravine. course S. E. ascend.
- 40.00 Set a limestone 18x10x4 inns. 12 inns. in the ground for 1/4 Sec. Cor. to Sec. 36. marked 1/4 on N. face; and raised a mound of stone 2 ft. base. 1/2 ft. high. W. of Cor. Pits impracticable.
- 58.60 The cor. to Secs 25. 30. 31 & 36. as heretofore described. I destroy all marks pertaining to Sec. 25 & 36.
- 67.00 Ridge. bears N. W. & S. E. enter scattering aspens. descend.
- 75.00Leave aspens.
- 80.00 Set a trachyte 16x8x5 inns. 11 inns. in the ground for Cor. to Secs 25 & 36. marked 1 notch on S. & 5 notches on N. edges; and raised a mound of stone 2 ft. base. 1/2 ft. high. W. of Cor. Pits impracticable. Lmnl. broken.
- Fair. Gravelly & rocky, 3rd scale.
- River. Scattering aspens.
- Mountainous land 80 obs.

North along E. side of Sec. 25.
Descend.

- 6.00 Head of gulch. course S. E. ascend.
- 13.30 Ridge. bears N. E. & S. W. thence over rolling top of mountain.
- 18.60 Thos 1/4 Sec. Cor. bet. secs 25 & 30. as heretofore described. I destroy all marks pertaining to Sec. 25.

East-bound of U. S. G. S. R. 24. W. Continued.

- various.
 32.00 Enter scattering aspens.
 40.00 On aspen tree 4 in. in diam. for $\frac{1}{4}$ sec.
 Cor. to Sec. 25 - marked $\frac{1}{4}$ on W. side, from
 which
 On aspen 8 in. in diam. bears $N 28^{\circ} W 12'$
 Ch. dist. marked $\frac{1}{4}$, S. 25. B. T.
 On aspen 10 in. in diam. bears $N 3^{\circ} W 14'$
 Ch. dist. marked $\frac{1}{4}$, S. 25. B. T.
 44.00Leave aspens.
 58.60 The cor. to Secs 19, 24, 25 & 30, as heretofore
 described. I destroy all marks pertaining
 to Secs 24 & 25.
 73.00 Ridge. bears E. & W. descend.
 75.00 Enter aspens.
 80.00 Set a limestone 17x11x5 in. 12 in. in the
 ground for Cor. to Secs 24 & 25. marked 2
 notches on S. & 4 notches on W. edges; from which
 On aspen 8 in. in diam. bears $N 50^{\circ} 15' W$
 30 lbs dist. marked T. 29. S. R. 2 $\frac{1}{2}$. W. S. 24. 13. T.
 On aspen 4 in. in diam. bears $S 54^{\circ} 30' W 39'$
 Ch. dist. marked T. 29. S. R. 2 $\frac{1}{2}$. W. S. 25. 13. T.
 Land. Rolling top of mountain.
 Soil. Granular & rocky & red.
 Timber. Scattering aspens.
 Mountainous land 80 chs.

North along E. side of Sec. 24.

Enter aspens. descend.

- 9.10 Gulch. course W. ascend.
 16.60 Ridge. bears E. & W. descend.
 18.60 Thru $\frac{1}{4}$ sec. Cor. betw. Secs 19 & 24 as heretofore
 described. I destroy all marks pertaining
 to Sec. 24.
 20.60 Leave aspens.
 22.60 Gulch. course W. ascend 200 ft
 40.00 Set a Flint-rock 18x10x4 in. 12 in. in
 the ground for $\frac{1}{4}$ Sec. Cor. to Sec. 24,
 marked $\frac{1}{4}$ on W. face; and raised a mound
 of stone 2 ft. base. 1 ft. high. W. of cor.
 Bits impracticable.
 50.10 Top of ridge. bears N. W. & S. E. descend.

East boundary of T. 29 S. R. 22 W. Continue

Chains 53.10	Enter aspens.
58.60	The Cor. to Secs 13, 18, 19 & 24. as heretofore described. I destroy all marks pertaining to Secs 13 & 24.
68.00	Leave aspens.
80.00	Set-a sandstone 18x12x3 in. 12 in. in the ground for Cor. to Secs 10 & 24. marked 3 notches on N. & S. edges; and raised a mound of stone 2 ft. base, 1 ft. high. W. of Cor. Pts impracticable. Land. rolling top. of mountain. Soil. Gravelly & rocky. 3 rd rate. Timber. Aspens. Mountainous land 80 chs.

Oct. 11, 1894, I set-off 7:20 A.M. on the decl. arc, and at 12th M. C. m. t. observed the sun on the meridian. The resulting Lat. is 38° 18' N. At the cor. to Secs 13 & 24.

Then I ran

North along the E. side of Sec. 13.

Descend gradually.

18.60 The $\frac{1}{4}$ Sec. Cor. off. Secs 13 & 18. as heretofore described. I destroy all marks pertaining to Sec. 13.

40.00 Set-a sandstone 16x11x8 in. 11 in. in the ground for $\frac{1}{4}$ Sec. Cor. to Sec. 13. marked $\frac{1}{4}$ on W. face; and raised a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high. W. of Cor. Pts impracticable.

40.10 Enter scattering spruce

47.60 Leave spruce, enter aspens.

44.10 Enter bottom of Canyon, comes E. Creek 2 lbs smoke. flows E.

52.10 Leave aspens. ascend.

58.60 The Cor. to Secs 7, 12, 13 & 18. as heretofore described. I destroy all marks pertaining to Secs 12 & 13.

80.00 Set-a brachyte 18x10x6 in. 12 in. in the ground for Cor. to Secs 12 & 13. marked 4 notches on S. & 2 notches on N. edges; and raised a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high. W. of Cor. Pts

East boundary of S. 29. I. R. 2d W. Continued.

Chains	impracticable. Land. broken. Soil. Rocky. 4" shale. Timber. Spruce & Aspen Mountainous land 80 chs.
	North along E. side of sec. 12. Ascend. Ridge 500 ft. above Creek. bears S. W. descend. Ditch. comes S. W. ascend 200 ft.; Ridge. bears E. of N. descend. The 1/4 sec. Cor. lot. Secs 7 & 1/2. as heretofore described. I destroy all marks pertaining to Sec. 12. Ditch. 200 ft. deep. comes S. W. ascend It - a sandstone 16 x 10 x 6 inns. 11 inns. in the ground for 1/4 sec. Cor. to Sec. 12. marked 1/4 in. W. face; and raised a mound of stone 2 ft. base. 1 ft. high. W. of Cor. This impracticable. The Cor. to Secs 1. 6. & 7 & 1/2. as heretofore described. I destroy all marks pertaining to Secs 1 & 1/2. Ridge. bears N. E. & S. W. descend. Hollow. comes S. W. ascend. It - a tractype 16 x 10 x 6 inns. 11 inns. in the ground of Cor. to Secs 1 & 1/2 marked, switch on it 1/5 notches on S. edge; and raised a mound of stone 2 ft. base. 1 ft. ft. high. W. of Cor. This impracticable. Land. broken. Soil. Rocky. 4" shale. No timber. Mountainous land 80 chs.
	North along E. side of Sec. 1. Ascend. Ridge. bears N. E. & S. W. descend. The 1/4 sec. Cor. lot. Secs 1 & 1/2. as heretofore described. I destroy all marks pertaining to Sec. 1.

East boundary of S. 24. R. 24. T. W. Continued.

Chains. 28.10	Head of Canon. comes N. E. ascend.
40.00	At a sandstone 10x10x6 in. 12 in. in the ground for $\frac{1}{4}$ sec. Cor., marked $\frac{1}{4}$ on W. face; and raised a mound of stone 2 ft. base. $\frac{1}{2}$ ft. high. W. of Cor. Pit impracticable.
60.10	Ridge. bears N. E. E. S. W. descend.
70.10	Head of Canon. comes S. W. ascend.
70.00	The Cor. to Sps 28 & 29 S. R. 2. W. as heretofore described.
85.40	The Cor. to Sps 28 & 29 S. R. 2. W. as heretofore described.
	Land. rolling top of mountain.
	Soil. Rocky. 4 th rate.
	No timber.
	Mountainous land 88.90 chs

October 11-1847.

Boundaries of S. 24 S. R. 24 W.
Latitudes, departures and closing errors.

Line designated as	True bearing	Distance	Latitudes		Departures	
			North	South	East	West
South boundary	East	348.41				348.41
East boundary	North	488.40	488.40			
North boundary	West	347.40				347.40
West boundary	South	488.50		488.50		
Convergency	V					57
			488.40	488.50	348.41	348.02
			488.50		348.02	

Error in Lat. .40

.39 Error in Dep.

Note: For General Description, see Subdivision
of this township.

John J. Breckinridge
C. Horner M. C. Carter
U. S. Deputy Surveyors.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by
....., United States Deputy Surveyor, to assist in running, measuring, and
marking the lines and corners described in the foregoing field notes of the survey of

showing the respective capacities in which they acted:

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted
....., United States Deputy Surveyor, in surveying all
those parts or portions of the

..... of the
meridian, of, which are represented
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
corner monuments established, according to the instructions furnished by the United States Surveyor
General for

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

Subscribed and sworn to before me this }
day of , 189 }



O V R

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____, United States Surveyor General for _____, bearing date of the _____ day of _____, 189_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____

of the _____ meridian, in the _____ of _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor.

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 189_____ }
 ~~SEAL~~

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Philadelphia March 13, 1899

The foregoing field notes of the survey of *the South East Boundary
of Township 29d East Range 26 West of the Second
Base & Meridians*

executed by *John C. Meekins Esq. Surveyor of Pennsylvania*
under his contract No. 208, dated *October 20th, 1896*, having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the
surveys they describe, are hereby approved.

Jacob J. Blaas

United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____
has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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BOOK A-250

W. J. B.

FIELD NOTES

OF THE SURVEY OF THE

Subdivision of T. 29 S. R. 32 E. W.of the Salt Lake Bas and Meridian,
State of Utah.

AS SURVEYED BY

Chas. P. Beckon & Co. Comr. of Party, United States Deputy SurveyorsUnder their Contract No. 208, dated October 20th, 1896Survey commenced October 9th, 1896Survey completed October 15th, 1896

6-161

Secs - (high) 22-42-73 ✓ 2³
 " (low) 3-49-00 ✓ 6-1, 2³

NAMES AND DUTIES OF ASSISTANTS.

Alex. Garrison Chairman

E. H. Brownson Chairman

Frank Johnson Chairman

Chas. Johnson Chairman

Hannah Hale Treasurer & Correspondent

Suekla Johnson Treasurer & Correspondent

For preliminary affidavits see Lents O-

BOOK A-250

INDEX DIAGRAM.

Township....., Range.....

6	5	4	3	2	1
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18	17	16	15	14	13
19	20	21	22	23	24
20	29	28	27	26	25
21	32	33	34	35	36

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, and
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

....., *Chainman.*

....., *Chainman.*

Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., *Moundman.*

....., *Moundman.*

Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., *Axman.*

....., *Axman.*

Subscribed and sworn to before me this }
day of , 189 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., *Flagman.*

Subscribed and sworn to before me this }
day of , 189 }



Subdivision of C. & G. S. U. P. & M.

Survey commenced Oct. 9 - 1847. I executed with a Gentry Surveyor transit & Gentry Mountain transit each with solar attachment. I examine the adjustments of the surveys transit, and correct the level and collimator errors; then to test the solar apparatus by comparing its indications resulting from solar observations made during A.M. 8 P.M. hours, with a true meridian determined by observations on Polaris, I proceed as follows;

Oct. 9. At the cor. to Secs 1. 2. 3. 5. & 6. which I established Sept. 28th 1847. Latitude 38° 16' N. Longitude 112° 08' W. at 4 h 30^m P. M. Sun at 38° 14' on the lat. arc; 6° 57' S. on the decl. arc; and determine with the solar a true meridian, and mark a point thereof on a stone firmly set in the ground 5 chs. N. of the corner.

At 6^h 11^m P. M. L. m. t. I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined on a peg driven in the ground 5 chs. E. of my station.

October 9th 1847.

October 10th At 9^h A. M. L. m. t. I lay off the azimuth of Polaris 1° 55' to the west, and mark the true meridian thus determined, by cutting a wedge groove in the stone set Oct. 9. on which the true meridian falls 0.55 m. east of the mark determined by the solar.

At 4^h 30^m (2. W. L. m. t.) I set off 38° 16' N. on the lat. arc; 6° 57' S. on the decl. arc, and mark a point in the true meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station this mark falls 0.33 m. east of the true meridian established by the Polaris observation.

Subdivisions of C. 2d. S. F. 3d. W. Continued

Shams.	The solar apparatus by P. M. & A. M. observations defines positions for true meridians, respectively about $0^{\circ}19'$ west and $0^{\circ}16'$ east of the true meridian east by the Polaris observations; therefore I con-
	the adjustments of the instrument are satisfactory.
	The magnetic bearing of the true meridian at $8^{\text{h}}\ 2^{\text{m}}$ A. M. is $W15^{\circ}55'N$. The angle thus determined, reduced by the table, page 100, gives the mean Mag. decl. $15^{\circ}55'E$.
	I began at the cor. to Secs 1, 2, 35 & 36 on a ray. of C. as heretofore described and from
10.01	W. 01 N. lat. Secs 35 & 36
	ascend in scattering groves of aspen
29.00	Cross ridge bears N. E. and S. W.
40.00	Set a trachyte 15x7x6 ins 10 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face from which an aspen 6 ins diam. bears $319^{\circ}E$ 130 lbs. dist. marked $\frac{1}{4}$ S. B. T.
	An aspen 8 ins diam. bears $36^{\circ}E$ 165 lbs. dist. marked $\frac{1}{4}$ S. B. T.
48.00	Rainy. comes S.W. steps ascend.
77.25	Enter aspen grove.
78.00	Leave aspen grove
80.00	Set a trachyte 15x12x8 ins. 10 ins in the ground for cor. of secs 25, 26, 35 and 36 marked with 1 notch on S. and E. edges and raise a mound of stone 2 ft. base $\frac{1}{4}$ ft. high W. of cor. It is impracticable.
	An aspen 7 ins. diam. bears $3.73^{\circ}W$ 80 lbs. dist. marked T. 29 S. R. $2\frac{1}{2}$ W. S. 35 B. T.
	An aspen 6 ins. diam. bears $N30^{\circ}45'W$ 38 lbs. dist. marked T. 29 S. R. $2\frac{1}{2}$ W. S. 26 B. T.
	No other bearing trees within limits Sand broken
	Soil rocky 4 th rate.
	Timber. scattering groves of aspen mountainous land 80.00 lbs.

Subdivision of T. 29 S. R. 2 $\frac{1}{2}$ W. Continued

Chains.	
40.00	East on a random line bet. secs. 25 and 36 Set trap. $\frac{1}{4}$ sec. cor.
79.90	Intersect E. bdy of T. 29 at the cor. of secs 25. ... and 36 as heretofore described. Hence 3 min.
	West on a true line bet. secs 25 and 36 Ascend 100 ft.
8.00	Enter aspens.
13.00	Top of ridge bears N. W and S. E.
16.00	Leave aspens descending 50 ft.
25.50	Head of gulch comes S. E. ascending 100 ft.
33.00	Enter aspens.
36.75	Leave aspens.
39.00	Top of ridge. bears N. and S.
39.85	Set a trachyte 18x14x8 ins 10 ins in the ground for $\frac{1}{4}$ sec. cor. mashed $\frac{1}{4}$ on N. face, and raise a mound of stone 2 ft. high $\frac{1}{2}$ ft. high N. of cor. Pits imperceptible.
41.50	Descending 20 ft.
44.50	Head of gulch comes S. E.
46.00	Ascending 200 ft.
61.00	Top of ridge. bears N. and S.
64.00	Descending 75 ft.
73.00	Enter aspens.
75.00	Leave aspens.
76.00	Gulch comes S. ascending 50 ft.
- 79.90	The cor. of secs 25, 26, 35 and 36 having bushes Soil rocky - 4 the rock Timber scattering groups of aspens Montaneous level 79.90 chs.

No° 01 W bet. secs. 25 and 26
Ascending 100 ft gradually along W. side of gulch
in scattering aspen.

21.00	Top of ridge bears E. and W. descending gradually
40.00	Set a trachyte 10x14x7 ins. 10 ins in the ground for $\frac{1}{4}$ sec. cor. mashed $\frac{1}{4}$ on W. face and raise a mound of stone 2 ft. high $\frac{1}{2}$ ft. high W. of cor. Pits imperceptible.

Subdivision of T. 2 S. R. 27 W continued

Claims

An aspen 12 ins diam. base $378^{\circ}30' E$ 16 ft. the dist.
marked $\frac{1}{4}$ S. B. T.

An aspen 12 ins. diam base $387^{\circ}30' W$ 27 ft.
dist. marked $\frac{1}{4}$ S. B. T.

- 80.00 Set a granite 18x11x8 ins. 12 in in the
ground for cor. of secs 23-24-25 and 26. marked
with 2 notches on S. and 1 notch on E. edge
and raise a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft.
high. W. of cor. Pits impracticable.
Sand broken

Soil rocky - 4 $\frac{1}{2}$ rate

Timber scattering aspens. and spruce
mountainous land 80.00 chs.

October 10. 1897 at this cor. I set off. $6^{\circ}59' S$ on
the decl. sec. and at 12 m. L. M. T. observe
the sun on the meridian. the resulting
lat. is $38^{\circ}17' N$

East on a random line bet. secs 24 and 25

40.00 Set temp $\frac{1}{4}$ sec. cor.

80.00 Intersect E. bdy. of Twp. at the cor. of secs 24 &
25 as heretofore described.

Thence I run

West on a true line bet. secs. 24 and 25

Enter aspens ascend

14.00 Leave aspens.

15.50 Point of ridge falls. N.W. descend 300 ft.

28.00 Canyon comes. N. Creek 2.66 miles flows N. ascend.

40.00 Set a cond. stone 16x10x8 ins. 12 ins in the ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face. and raise
a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high. N. of cor.
Pits impracticable.

47.00 Point of ridge falls. N.E. descend

50.50 Enter aspens

58.80 Gables come N.E.

75.00 Leave aspens.

- 80.00 The cor. of secs. 23-24-25 and 26.

Sand broken

Soil rocky - 4 $\frac{1}{2}$ rate

Timber. groves of aspens and scattering spruce

Subdivision of 295. R. 2½ W Continued

chains	Mountainous land 80.00 acs
	$10^{\circ} 01' N$ bet. sec. 23 and 24 Ascend.
5.00	Enter aspens.
10.00	Top of ridge bears N.E. and S.W. descend
20.00	Head of hollow comes N.E. ascend
30.50	Divide N.E. and S.W. crossing over W. slope
40.00	Set a trachyte 16x10x4 ins. 11 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high W. of cor. Pits impracticable No bearing trees within limits.
47.00	Enter aspen grove.
56.00	Leave aspen grove.
80.00	Set a trachyte 16x9x4 ins. 11 ins in the ground for cor. of sec. 13, 14, 23 and 24, marked with 3 notches on S. and 1 notch on E. edges and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high W. of cor. Pits impracticable An aspen 6 ins. diam. bears $164^{\circ} E$ 4 lbs dist marked T. 29 S. R. 2½ W. S. 13 B. T. An aspen 5 ins. diam. bears $835^{\circ} E$ 10 lbs. marked T. 29 S. R. 2½ W. S. 24 B. T. An aspen 8 ins. diam. bears $857^{\circ} 45' W$ 11 lbs dist. marked T. 29 S. R. 2½ W. S. 23 B. T. No other bearing trees within limits Stone broken Soil rocky - 4 lbs rate Timber. aspens and spruce Mountainous land 80.00 acs.

East on a random line bet. sec. 13 and 24
40.00 Set temp. $\frac{1}{4}$ sec. cor.
79.94 Intersect E. bdy. of Tp. at the cor. of sec
13. " and 24 as heretofore described.
Hence I run
West on a true line bet. sec. 13 and 24
Ascending 30 ft. to

Subdivision of T. 29 S. R 27 W. Continued

Chains	
5.00	Top of ridge bears N.W. and S.E. descend
24.00	Canyon comes N. ascend
25.00	Point of ridge 50 ft. high falls N. enter spruce descent
28.70	Gulch comes N.E. ascend
30.00	Leave spruce.
37.97	Set a trachyte 16x12x5 ins. 11 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.
50.00	Enter aspens.
- 79.94	The cor. of secs 13, 14, 23 and 24 being broken Soil rocky - 4 th rate Limber aspens and spruce Mountainous land 79.94 chs.

2.00	No° 01' W bet. secs 13 and 14 Descent 250 ft. enter aspens.
22.00	Cross divide bet. Sevier and Grass Valley bears N.E. and S.W. descent
27.00	Leave aspens.
29.00	Enter flat. head of ravine comes W.
33.00	Leave flat ascend 100 ft.
40.00	Set a trachyte 15x8x5 ins. 10 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable.
42.00	Cross divide bet. Sevier and Grass Valley bears E. and W. descent.
52.00	Enter pines.
57.50	Leave pines.
61.00	Ravine comes N.E.
63.00	ascend 150 ft.
78.00	Cross divide bet. Sevier and Grass Valley. bears E. and W. descent
- 80.00	Set a trachyte 18x6x5 ins. 12 ins in the ground for cor. of secs 11, 12, 13 and 14 marked with 4 notches on S. and 1 notch on E. edges and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable.

Subdivision of T. 29 S. R. 2 $\frac{1}{2}$ W. Continued

names

Sand broken
Soil rocky - 4th rate
Timber aspens and pines
Mountainous land 80.00 chs.

T

East on a random line bet. secs 12 and 13

40.00 Set temp $\frac{1}{4}$ sec. cor.

79.96 Interest E. bdy. of Tp. at the cor. of secs 12
13 as heretofore described.

Thence 3 m.

West on a true line bet. secs. 12 and 13

Descent

5.00 Canon course S.

12.00 Top of ridge. bears N. and S. Descent

37.00 Canon course S.E. ascend

39.98 Set a trachyte 14x8x6 ins. 10 ins in the ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face. and raise
a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor.
Pits impracticable.

69.00 Top of divide bet. Sevier and Bear Valleys
bears N.E. and S.W. Thence along N. slope of divide

- 79.96 The cor. of secs 11, 12, 13 and 14

Sand broken

Soil rocky - 4th rate

No timber

Mountainous land 79.96 chs.

No' 01' W bet. secs 11 and 12

Descent 50 ft.

22.00 Ravine course S. W. ascending 125 ft.

40.00 Set a red trachyte 15x8x6 ins 10 ins in the
ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face
and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high
W. of cor. Pits impracticable.

43.00 Close divide between Sevier and Bear Valleys
bears. E. and W. "

44.50 Descent 75 ft.

56.00 Ravine course E. ascending 100 ft.

68.00 Close divide bet. Sevier and Bear Valleys

Subdivision of T. 29 S. R. 2 $\frac{1}{2}$ W. Continued

ains bears E. and W.

72.00 Descend 175 ft.

74.00 Enter aspene.

75.00 Leaves aspene.

- 80.00 Set a trachyte 16x14x5 ins. 11 ins in the ground
for cor. of secs. 1, 2, 11 and 12 marked with 5
notches on S. and 1 notch on E. edges and raise
a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor.
Pits impracticable.

Sand broken.

Soil rocky - 4 $\frac{1}{2}$ rate

Limber aspen groves

mountainous land 80.00 chs.

East on a random line bet. secs 1 and 12.

40.00 Set. temp $\frac{1}{4}$ sec. cor.

79.80 Intersect E. bdy. of T. at the cor. of secs 1...
and 12 as heretofore described.

Hence I run.

West on a true line bet. secs. 1 and 12

Ascend 150 ft.

18.00 Cross divide bet. Savie and Grass Valley
bear N.E. and S.W. descend

39.90 Set a trachyte 16x9x5 ins. 11 ins in the
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face. and raise
a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor.
Pits impracticable.

49.00 Ravine comes N. W. ascend gradually.

69.00 Enter aspen grove

72.00 Leaves aspen grove

- 79.80 The cor. of secs. 1, 2, 11 and 12
Sand broken

Soil rocky - 4 $\frac{1}{2}$ rate

Limber aspen groves

mountainous land 79.80 chs.

October 11. At this cor. I set off 70° 20' S. on
the decl. arc. and at 12 m. l.m.t. absolve
the sun on the meridian; the resulting
lat. is $38^{\circ}19'N$

Subdivision of T. 29 S.: R. 2 $\frac{1}{2}$ W. Continued

chains 33.00	No. 01° W. on a random line bet. secs. 1 and 2.
40.00	Sit temp. $\frac{1}{4}$ sec. cor. 11°
88.70	Intersect N. bdy. of Tp. at the cor. of secs. 1, 2. 35 and 36 as heretofore described
	Hence I run
2.00	50° 01' E. on a true line bet. secs. 1 and 2 Descending 25 ft.
27.70	Top of ridge bears E. and W. descending 400 ft. Canyon comes W. ascend 400 ft.
48.70	Cross ridge bears E. and W. Set a trachyte 18x10x6 ins 12 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face, and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high W. of cor. Pits impracticable.
	Descending
69.75	Ravine course N. W. ascend
72.55	Sedges. 100 ft. high. bear E. & W.
82.00	Enter aspens
86.00	Leave aspens
88.70	The cor. of secs. 1, 2, 11 and 12 Sand broken Soil rocky - 4th rate Timber aspens. Mountainous land 88.70 chs.

October 11: At 3 $\frac{1}{2}$:15 m. p.m. I set off
38° 15' on the lat and 7° 22' S on the decl. and
determine a true meridian with the
solar at the cor. of secs. 2, 3, 8, 9 and 35 on S.
bdy. of Tp. as heretofore described.

Hence I run

No. 01° W. bet. secs 34 and 35 -

ascend

19.00	Top of ridge falls N.E. descend
40.00	Set a trachyte 16x10x8 ins. 11 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high W. of cor. Pits impracticable.
46.00	Canyon. comes S. W. ascend
- 80.00	Top of ridge bears N and S. Set a trachyte 18x9x6 ins 12 ins in the ground

Subdivision of T. 29 S. R. 2 $\frac{1}{2}$ W Continued

for cor. of secs 26-27, 34 and 35. marked with
notches on S and 2 notches on E. edges and
raise a mound of stone 2 ft. base $\frac{1}{2}$ ft.
W. of cor. Pits impracticable.

Sand broken

Soil rocky - 4th rate

Timber, scattering groves of aspen.
Mountainous land 80.00 chs.

October 11, 89

Oct. 12, 1889 - 8-30 A.M. m. b. I set off 38° 16' to the right
7° 38' S. on the decl. arc; and determine a true meridian with the solar
at the cor. to secs 26-27, 34 & 35. Then run
East on a random line bet. secs 26 and 35

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.76 Intersect N. and S. line 23' N. of cor. of secs 25
26, 35 and 36

Then I run

N 89° 50' W on a true line bet. secs 26 and 36
Ascend 300 ft.

1.90 Enter aspens.

9.00 Leave aspens.

28.00 Tops of high ridge bears N. and S. descend
rapidly over high bluffs. in scattering aspens
39.88 Set a trachyte 12 x 10 x 8 ins. 8 ins in the ground
for $\frac{1}{4}$ sec cor. marked $\frac{1}{4}$ on N. face. and raise
a mound of stone 2 ft. base $\frac{1}{2}$ ft. high N. of
cor. pits impracticable

An aspen 9 ins. diam. bears N 22° 15' W 15 lbs. dict.
marked $\frac{1}{4}$ S. B. T.

An aspen 8 ins. diam. bears S 47° E 6 lbs. dict.
marked $\frac{1}{4}$ S. B. T.

41.50 Leave aspens.

- 59.00 Gulch comes S. W. ascend

- 79.76 The cor. of secs 26-27, 34 and 35

Sand broken

Soil rocky - 4th rate

Timber aspens

Mountainous land 79.76 chs.

110° 01' W. bet. sec 26 and 27

Descent gradually in sage brush.

6.00 Descent rapidly over sage and boulders

Sub-division of T. 29 S. R2 1/2 W. Continued

Chains 34.00	Heavy rocks and boulders. descending gradually 100 ft. to.
40.00	Set a trachyte 16x7x6 ins. 11 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable Descending 125 ft. to
50.00	Ravine course N.W. ascend
57.00	Point of ridge falls N.W. descend
64.00	Ravine 60 ft. deep. course N.W. ascend.
72.00	Top of ridge bears N.W. and S.E. descending gradually.
80.00	Set a trachyte. 16x12x8 ins. 11 ins in the ground for cor. of secs. 22. 23. 26 and 27. marked with 2 notches on S. and E. faces. and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable <u>Sand broken, soil rocky, timber aspen grows.</u> <u>Mountainous land 29.80 chs.</u>

	58° 50' E on a random line bet. secs. 23 and 26
40.00	Set. Temp. 1/4 sec. cor.
79.80	Intersect N. and S. line 5 lbs N. of the cor of secs 23. 24. 25 and 26
	Hence I run
	N 89° 48' W on a true line bet. secs 23 and 26
	Ascend 80 ft.
6.00	Cross divide bet. Sevier and Grass Valley bears N and S. descend 100 ft. to
35.00	Descending gradually
39.90	Set a sandstone 14x10x7 ins 10 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.
55.90	Ravine comes N.W. creek in bottom 2 lbs wide 1 ins deep come N.W. ascend 80 ft.
79.80	The cor. of secs. 22. 23. 26 and 27 Sand broken Soil rocky 4th rate No timber Mountainous land 29.80 chs.

Subdivision of T. 29 S. R. 2 $\frac{1}{2}$ W Continued

chains	October 12. I set off 7°42' S on the decl. acc. and 12 m. l. n. t. aboves the sun on the meridian: the resulting lat. is 38°17', at the cor. of secs. 22, 23, 26 and 27 Thence I run N 0°01' W bet. secs. 22 and 23 Descend gradually Descend 150 ft. 3.00 Ravine course N. W. ascend 50 ft. 21.00 Point of ridge falls N. W. descend 100 ft. 28.00 Canon, course N. W ascend 100 ft. 40.00 Set a lava stone 16x7x5 ins. 11 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{8}$ on W. face and raise a mound of stone 2 ft. base $\frac{1}{4}$ ft. high W. of cor. Pits impracticable. 53.00 Top of ridge bears E. and W. descend 125 ft. 69.00 Ravine, course N. W. 70.00 Ascend along W. side of mountain 80.00 Set a granite 18x14x8 ins. 12 ins in the ground for cor. of secs. 14, 15, 22 and 23 marked with 3 notches on S and 2 notches on E. edges and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high W. of cor. Pits impracticable. A fine 8 ins. diam. tree N 30°30' W. 18 ft. dia. marked T 29 S. R. 2 $\frac{1}{2}$ W. S. 15 B. T. No other bearing trees within limits. Sand broken Soil rocky - 4 th rate No timber Mountainous land 80.00 cho.
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40.00	Set temp. $\frac{1}{4}$ sec. cor.
77.92	Intersect N and S line 28 ft. S. of the cor. of sec. 13, 14, 23 and 24 Thence I run
20.00	West on a true line bet. sec. 14 and 23. Enter a broken ascend Cross divide bet. Sevier and Grace Valleys bears N. and S. descend on mountain side

Subdivision of T. 29 S. R 2 1/2 W. continued

chains. 39.96	Set a trachyte 15x10x6 ins 10 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.
79.92	The cor. of secs. 14, 15, 22 and 23 Sand broken Soil rocky - 4 th rate Timber - aspens 1.00 ch. Mountainous land 79.92 chs.
18.00	No° 01 W. bet. secs 14 and 15 Along W. side of mountain Descent 200 ft.
37.00	Canon comes W.
40.00	Set a granite 16x9x5 ins. 11 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable. A fine 5 ins. diam. beam 569° 15' E 26 lbs. dist. marked 1/4 S. B.T. No other bearing trees within limits.
40.75	Descent 175 ft.
56.00	Top of ridge beam N. W. and S. E.
57.50	Descent 85 ft.
62.50	Ravine comes W. ascend
68.00	Enter scattering cedars and firs
80.00	Set a granite 18x10x9 ins 12 ins in the ground for cor. of secs. 10, 11, 14 and 15. marked with 4 notches on S. and 2 notches on E. edges and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable. A fine 16 ins. diam. beam 525° 46' E 122 lbs. dist. marked T. 29 S. R. 2 1/2 W. S 14 B.T. A cedar 12 ins diam. beam 525° W 37 lbs. dist. marked T. 29 S. R. 2 1/2 W. S. 15 B.T. No other bearing trees within limits Sand broken Soil rocky - 4 th rate Timber scattering cedars and firs. Mountainous land 80.00 chs.

Sub-division of T. 29 S. R. 2 $\frac{1}{2}$ W. Continued

- Chasms
East on a random line bet. sec. 11 and 14
40.00 Set trig. $\frac{1}{4}$ sec. cor.
80.00 Interest N.W. S. line at the cor. of secs. 11, 12, 13 and 14
Beneath tree.
West on a true line bet. sec. 11 and 14
Descent along mountain side
40.00 Set a trachyte 15x8x5 ins. 10 ins in the ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face. and raise a
mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high N. of cor.
Pits impracticable.
49.00 Ravine course S. W. descent along N. slope of mountain
- 80.00 The cor. of secs. 10, 11, 14 and 15
Boulders broken
Soil rocky - 4 $\frac{1}{2}$ ft. rate
Timber scattering cedars and pines
Mountainous land 80.00 obs.

October 12, 1897

- No° 01 W bet. sec. 10 and 11
Along W. slope of mountain. entire cedars across
29.00 Top of ridge: bears N.E. and S. W. descent 150 ft.
34.50 Grouse comes W. Each 2 lbs wide from N. ascend.
40.00 Set a trachyte 15x9x4 ins. 10 ins in the ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face. from which
a cedar 12 ins. diam. bears S. 34° E. 125 lbs.
dist. marked $\frac{1}{4}$ S. B.T.
A cedar 6 ins diam. bears S 81° 50' W. 66 lbs. dist.
marked for S. B.T. and W.
- 60.00 Top of ridge bears N. and W.
- 80.00 Set a trachyte 16x8x5 ins. 11 ins in the ground
for cor. of 2 sec. 10 and 11. marked with 5 notches
on S and 2 notches on E. sides and raise a mound
of stone 2 ft. base 1 $\frac{1}{2}$ ft. high N. of cor.
Pits impracticable.
A pine 13 ins. diam. bears S 68° 30' W. 64 lbs. dist.
marked T. 29 S. R. 2 $\frac{1}{2}$ W. S 10 D. 7.700 ft. to mountain limit.
Boulders broken
Soil rocky - 4 $\frac{1}{2}$ ft. rate
Timber scattering cedars and pines
Mountainous land 80.00 obs.

Sub-division of T. 29 S. R. 2½ W. Continued

- ains. East on a random line bet. secs. 2 and 11
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.00 Intersect N and S line 200 ft S. of the cor. of
 1. 2. 11 and 12
 Hence I run
 $889^{\circ} 50' W$ on a true line bet. secs. 2 and 11
 Ascend 125 ft.
 1.25 Enter aspens
 5.50 Leave aspens.
 16.00 Enter aspens.
 20.00 Cross ridge bears N. and S. leave aspens descend
 50 ft.
 21.50 Enter Pines.
 35.00 Point of ridge falls N. descend, leave pines.
 40.00 Set a trachyte 18 x 10 x 6 ins. 12 ins in the
 ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face and
 raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high
 N. of cor. Pits impracticable
 80.00 The cor. of secs 2. 3. 10 and 11
 Sand broken
 Soil rocky - $\frac{1}{4}$ th rate
 Timber aspens and pines. scattering
 mountainous land 80.00 clrs.

$10^{\circ} 01' W$ on a random line bet. secs 2 and 3

- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 88.52 Intersect N. bdy. of 1/2 sec. 2 lines W. of the cor. of
 secs. 2. 3. 94 and 35 as heretofore described.
 Hence I run
 South on a true line bet. secs. 2 and 3
 enter scattering cedars and pines
 2.50 Dry wash 500 ft wide 20 ft. deep course S. W ascend
 28.50 Top of ridge 500 ft. high bears E and W. descend
 46.50 Ravine corral W. ascend
 48.52 Set a trachyte 15 x 7 x 5 ins. 10 ins. in the ground
 for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face and raise
 a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor.
 Pits impracticable.
 60.50 Top of ridge. bears E and W. descend
 75.00 Ravine corral W. ascend
 - 88.52 The cor. of secs 2. 3. 10 and 11
 Sand broken

Subdivision of T. 29 S. R. 2 1/2 W. Continued

ains

Soil rocky - 4th rate
Timber scattering cedars and pines,
mountainous land 88.52 chs.

October 13. I set off. $8^{\circ}05'5''$ on the decl. arc.
and at 12 m. l. m. t. observe the sun on the
meridian; the resulting lat. is $38^{\circ}15'$ at the
cor. of secs. 3. 4. 38 and 34. on S. bdy. of M. as
heretofore described.

Hence I run.

$10^{\circ}02'W.$ bet. secs 33 and 34

Ascend in scattering cedars and pines.

- 4.00 Top of ridge bears E and W. descend 500 ft.
- 16.60 Canon come N.W. ascend 500 ft.
- 34.00 Top of ridge bears N.E and S.W. descend, leave
cedars and pines.
- 40.00 Set a trachyte 16x12x6 ins. 11 ins in the ground
for 1/4 sec. cor. marked 1/4 on W. face and raise
a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.
Pits impracticable.
- 42.80 Gulch 200 ft. deep come S.W. ascend
- 53.00 Top of ridge bears N.E and S.W. descending 500 ft.
- 67.00 Canon come S.W. ascend 350 ft.
- 72.50 Top of ridge bears N.E and S.W. descend
- 80.00 Set a sandstone 16x10x6 ins. 11 ins in the ground
for cor. of secs. 27. 28. 33 and 34. marked with
1 notch on S. and 2 notches on E. edges and raise
a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.
Pits impracticable.
- 80 and broken.

Soil rocky - 4th rate

Timber scattering cedars and pines

Mountainous land 80.00 chs.

E.C. 16 13

October 13rd; Et. 2 h. 05 m. p.m. l. m. t. I set off
 $38^{\circ}16'$ on the lat. arc $8^{\circ}06'5''$ on the decl. arc. and
determine a true meridian with the solar
at the cor. of secs. 27. 28. 33 and 34.
Hence I run.

East on a random line bet. secs. 27 and 34

Subdivision of T. 29 S. R 2½ W. continued

40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect N. and S. line 9 chs. S. of the cor. of secs 26, 27, 34 and 35 Hence I run $S 89^{\circ} 56' W$ on a true line bet. secs 27 and 34 descend
39.20	Gulch course S. ascend 350 ft.
40.00	Set a sandstone 16x12x6 ins. 11 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high N. of cor. Pits impracticable
- 80.00	An aspen 6 ins diam bears S 55° W rock. dist. marked $\frac{1}{4}$ S. BT. No other bearing trees within limits.
48.00	Top of ridge bears N. E and S. W. descend 500 ft.
- 80.00	The cor. of secs 27, 28, 33 and 34. Sand broken Soil rocky - 4 th rate Timber aspen groves Mountainous land 80.00 chs.

No° 02 W bet. secs 27 and 28

descend 50 ft.

11.00	Head of gulch course S. W. ascend
40.00	Set a sandstone 16x12x6 ins. 11 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high W. of cor. Pits impracticable.
46.00	Top of ridge 50 ft. above sic. cor. bears N. E and S. W. descend
80.00	Set a trachyte 16x10x5 ins. 11 ins in the ground for cor. of secs. 21, 22, 27 and 28. marked with 2 notches on S and 3 notches on E. edge and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high W. of cor. Pits impracticable.
-	Sand broken Soil rocky. No timber Mountainous land 80.00 chs.

Subdivision of T. 29 S. R. 2 $\frac{1}{2}$ W. Continued

Chains.	
40.00	N $89^{\circ}56' E$ on a random line bet. secs. 22 and 27 Set temp $\frac{1}{4}$ sec. cor.
79.98	Intersect N. and S. lines 14 chks. N. of the cor. of secs. 23, 22, 26 and 27. Hence from N $89^{\circ}58' W$ on a true line bet. secs. 22 and 27 descend gradually.
5.00	Top of ridge bears N.W. and S.E. descend
12.00	Gulch, 200 ft. deep comes N.W. ascend
17.00	Point of ridge falls N.W. descend 300 ft.
30.00	Gulch comes N. ascend 100 ft.
32.50	Top of ridge bears N. and S. descend
39.99	Set a quartzite 14x12x4 ins. 10 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face. and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high N. of cor. Pits impracticable
50.00	Head of gulch comes N. ascend 200 ft.
58.00	Top of ridge bears N.E. and S.W. descend 400 ft.
- 79.98	The cor. of secs. 21, 22, 27 and 28 Sand broken. Soil rocky - 4 th rate No timber Mountainous land 79.98 chs.

October 13 1897

	No $02' W$ bet. secs. 21 and 22 Descending gradually.
5.00	Ravine comes N.E. ascend 200 ft.
19.00	Top of ridge bears N.E. and S.W. descend gradually.
40.00	Set a sandstone 20x14x4 ins. 15 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high N. of cor. 8 th rate
59.00	Rock of ravine 600 ft. below ridge comes S.W.
61.00	Enter cedar. ascend 300 ft.
75.50	Top of ridge bears N.E. and S.W. descend.
80.00	Set a trachyte 18x12x10 ins. 12 ins in the ground for cor. of secs 15, 16, 21 and 22 marked 29 S. on N.E. $2\frac{1}{2}$ W on S.E. faces; with notches on S and E. edges. From which a fine 10 ins. diam. bears N $84^{\circ}20' E$ 52 lbs. diet.

Subdivision of T. 29 S. R. 2 $\frac{1}{2}$ W. Continued.

ans.

marked T. 29 S. R. 2 $\frac{1}{2}$ W. S 15 B.T.

A cedar 16 ins. diam. bears $36^{\circ}40' E.$ 65 lbs. dist.

marked T. 29 S. R 2 $\frac{1}{2}$ W. S. 22 B.T.

A cedar 6 ins diam. bears $33^{\circ}40' W.$ 48 lbs. dist.

marked T. 29 S. R 2 $\frac{1}{2}$ W. S. 21 B.T.

A pines 12 ins. diam. bears $N 23^{\circ}20' W$ 32 lbs. dist.

marked T. 29 S. R 2 $\frac{1}{2}$ W. S. 16 B.T.

Band broken

Soil rocky - 4 $\frac{1}{2}$ rate

Limber scattering cedars and pines.

Mountainous land 80.00 chs.

$S 89^{\circ}58'E$ on a random line bet secs 15 and 22

40.00 Set. temp $\frac{1}{4}$ sec. cor.

80.14 Intersect N. and S. line at the cor. of secs 14, 15-
22 and 23.

Hence I run

$N 89^{\circ}58'W$ on a true line bet. secs. 15 and 22

descend

18.00 Ravine comes N. W. ascend

21.00 Point of ridge 50 ft. high falls. N. descend

23.00 Ravine comes N. ascend 75 ft.

26.00 Point of ridge falls. N. descend

31.00 Ravine comes N. E. ascend 50 ft. later

40.00 Set a granite 14x10x4 ins 10 ins in the ground
for $\frac{1}{4}$ sec. cor. marking $\frac{1}{4}$ on N. face and raise
a mound of stones 2 ft. base $\frac{1}{2}$ ft. high N. of cor.
Pits impracticable

Ascend - in cutting cedars and pines

50.00 Top of ridge bears N.E and S.W. descend

67.00 Head of gulch. comes N.E. ascend

75.00 Top of ridge bears N.E and S.W. descend

The cor. of secs. 15, 16, 21 and 22.

Band broken

Soil rocky - 4 $\frac{1}{2}$ rate

Limber scattering cedars and pines

Mountainous land 80.14 chs.

Alt. 14°18.97. At 10 $\frac{1}{2}$ A.M. L.L. at this cor. I set off 33.58'
on the lat. arc; 89.25' S. on the decl. arc; and determine a
true meridian with the solar.

Subdivision of T. 29 S. R. 2 $\frac{1}{2}$ W. Continued

Chains	N $0^{\circ}02'W.$ bet. secs 15 and 16 Descent in cedars and pines.
40.00	Set a trachyte 14x10x8 ins. 10 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face and raise a mound of stone 2 ft. high 1 $\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
41.10	Canyon comes N. E. ascend
72.00	Cross ridge bears N.E and S.W. descend
80.00	Set a trachyte 18x8x8 ins. 12 ins in the ground for cor. of secs. 9, 10, 15 and 16 marked with 4 notches on S. and 3 notches on E. edges. Pine which: A pine 10 ins. diam. bears N $2^{\circ}02'5''E$ 143 lbs. dist. marked T. 29 S. R. 2 $\frac{1}{2}$ W. S. 10 B.T. A cedar 6 ins. diam. bears S $43^{\circ}25'E$ 52 lbs. dist. marked T. 29 S. R. 2 $\frac{1}{2}$ W. S. 10 B.T. A pine 12 ins. diam. bears S $9^{\circ}50'W.$ 82 lbs. dist. marked T. 29 S. R. 2 $\frac{1}{2}$ W. S. 10 B.T. A pine 12 ins. diam. bears N $46^{\circ}W.$ 82 lbs. dist. marked T. 29 S. R. 2 $\frac{1}{2}$ W. S. 9 B.T. Sand broken Soil rocky. Limber scattering cedars and pines Mountainous land of 80.00 clrs.

	October 14. I set off $8^{\circ}27'S.$ on the decl. arc. and at 12 m. l. m.t. observe the sun on the meridian; the resulting lat. is $38^{\circ}18'5''$ at the cor. of secs. 9, 10, 15 and 16. Hence I run. $S89^{\circ}58'E$ on a random line bet. secs. 10 and 15 Set temp $\frac{1}{4}$ sec. cor.
40.00	Intersect N. and S. line of the N. of cor. of secs 10, 11, 14 and 15. Hence I run. $N89^{\circ}54'W$ on a true line bet. secs. 10 and 15 Descent in scattering cedars and pines.
15.00	Rising comes S.W. ascend
30.00	Cross ridge 100 ft. high bears N.E. and S.W. descend
40.00	Set a granite 15x10x6 ins. 10 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face and raise

Subdivision of T. 29 S. R 2 $\frac{1}{2}$ W. Continued

acres.

a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high N. of cor.
Pits impracticable.

50.40 Road. bears N. W. and S. E. in canon comes N. W.
Creek 2 the wide course N. W. ascend
Point of ridge 100 ft. high falls N. descend
canon comes N. ascend.
Cross point of ridge. bearing N. E. ascend gradually.
The cor. of secs. 9, 10, 15 and 16
Sand broken
Soil rocky - 4 $\frac{1}{2}$ ft. rate
Limber scattering cedars and pines
Mountainous land 80.30 cts.

N $0^{\circ}0'0''$ W bet. secs 9 and 10

Descent in cedars and pines

38.60 Bottom of canon comes N. W. thence ascend
50 ft. along foot hills sloping W.

40.00 Set a trachyte 16x10x7 ins. 11 ins. in the ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face from which
a cedar 6 ins. diam. bears N $71^{\circ}E$ 118 lbs dist.
marked $\frac{1}{4}$ S. B.T.

A cedar 6 ins. diam. bears S $89^{\circ}30'E$ 44 lbs dist
marked $\frac{1}{4}$ S. B.T.

46.30 Road bears N. W. and S. E.

80.00 Set a trachyte 16x10x10 ins. 11 ins. in the ground
cor. of secs. 3, 4, 9 and 10. marked with 5 notches
on S. and 3 notches on E. edges. and raise a
mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high N. of cor.
Pits impracticable

Sand broken

Soil rocky - 4 $\frac{1}{2}$ ft. rate

Limber scattering cedars and pines.

Mountainous land 38.60 cts.

$S 89^{\circ}54'E$ on a random line bet. secs 3 and 10

40.00 Set temp $\frac{1}{4}$ sec. cor.

80.14 Intersect N. and S. line at the cor. of secs
2, 3, 10 and 11

Thence 3 mms

$N 89^{\circ}54'W$. on a true line bet. secs. 3 and 10

Subdivision of T. 29 S. R 2½ W. Continued

chains	descend 50 ft. in scattering cedars and pines
2.10	Roving compass N.W. ascend 100 ft.
12.00	Cross ridge bears N.W. and S.E., descending on W. slope of mountain.
40.07	Set a trachyte 16x11x4 ins. 11 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face from which, a cedar 12' diam. bears $869^{\circ}15'W$ 95 lbs. dist. marked $\frac{1}{4}$ S. B.T. A pine 10 ins. diam. bears $859^{\circ}45'W$ 105 lbs. dist. marked $\frac{1}{4}$ S. B.T.
60.00	Foot of mountain, descending gradually.
80.14	The cor. of secs 3. 4. 9 and 10 Sand broken
80.14	Soil rocky - $\frac{4}{5}$ rate Timber scattering cedars and pines Mountainous land 60.00 elev.
40.00	$10.0^{\circ}02'W$ on a random line bet secs 3 and 4 Set temp $\frac{1}{4}$ sec. cor.
88.46	Intersect N. bdy. of Tp. 23 1/4 sec. W of the cor. of secs. 3. 4. 33 and 34 as heretofore described. Hence I run
88.46	$50^{\circ}07'W$ on a true line bet. secs 3 and 4 Over foot hills sloping W.
48.46	Set a trachyte 18x10x8 ins. 12 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face and raise a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high W. of cor. Pits impracticable.
88.46	The cor. of secs 3. 4. 9 and 10 Sand rolling Soil rocky - $\frac{4}{5}$ rate No timber

October 14, 1848

October 15. at 8 h. 15 m. A. M. L.M.T. I set off $38^{\circ}15'$ on the lat. arc $8^{\circ}44'$ on the decl. arc, and determine a true meridian with the solar. at the cor. of secs 4. 5. 32 and 33. on S. bdy. of Tp. as heretofore described.
Hence I run

Subdivision of T. 29 S. R. 2½ W. continued

- chains. N $0^{\circ}03'W$ bet. secs. 32 and 33
 Ascend 100 ft. in scattering cedars and pines.
 1.00 Rocky point of ridge falls S.W. thence along
 W slope of ridge.
 40.00 Set a trachyte 16x12x8 ins. 11 ins. in the ground
 for p.s.e. cor. marked $\frac{1}{4}$ on W. face and raise
 a mound of stone 2 ft. base 1½ ft. high W. of cor.
 pits impracticable.
 75.00 Cross ridge. bear N.W. and S.E. descend
 gradually to
 80.00 Set a sandstone 16x10x5 ins. 11 ins in the
 ground for cor. of secs. 28, 29, 32 and 33 marked
 with 1 notch on S. and 4 notches on E. ed
 from which
 A pine 15 ins. diam. bears N $59^{\circ}35'E$ 16 lbs dist.
 marked T 29 S. R. 2½ W. S. 28 B.T.
 A pine 10 ins. diam. bears S $72^{\circ}E$ 27 lbs. dist.
 marked T 29 S. R. 2½ W. S. 33 B.T.
 A cedar 6 ins. diam. bears S $18^{\circ}W$ 50 lbs dist.
 marked T 29 S. R. 2½ W. S 32 B.T.
 A pine 18 ins. diam. bears N $28^{\circ}50'W$ 36 lbs dist.
 marked T 29 S. R. 2½ W. S. 29 B.T.
 band broken
 Soil rocky - 4 $\frac{1}{2}$ ins late
 timber scattering cedars and pines
 mountainous land 80.00 cts.

X

East on a random line bet secs 28 and 33

- 40.00 Set temp $\frac{1}{4}$ sec. cor.
 79.90 Intersect N. and S. line at the cor. of secs.
 27, 28, 33 and 34.
 thence I run
 West on a true line bet secs 28 and 33
 descend
 5.60 Gulch comes S.W. ascend enter se
 cedars and pines.
 19.00 Top of ridge bears N.W. and S.E. descend 300
 36.50 Gulch comes S.W. descend 100 ft.
 39.95 Set a trachyte 16x10x4 ins. 11 ins in the
 ground for p.s.e. cor. marked $\frac{1}{4}$ on W. face

Subdivision of T. 29 S. R. 2 $\frac{1}{2}$ W. continued

	chains	and scat. a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
-	40.50	Top of ridge bears N.E. and S.W. descend 300 ft.
	58.00	Head of ravine course N.W. ascend 300 ft.
-	79.90	The cor. of secs. 28, 29, 32 and 35. Land broken Soil rocky - 4 th rate Limber scattering cedar and pines. Mountainous land 79.90 chs.
-	28.20	West on a random line bet. secs. 27 and 32 intersect N. bdy of Tp. at the cor. of secs. 25 29, 32 and 36 as heretofore described Distroy all marks pertaining to secs. 20 and 31 and mark them for secs. 29 and 32 Hence I run. East on a true line bet. secs. 29 and 32 Enter scattering cedar and pines. descend. Gulch comes S. ascending 300 ft to.
-	10.50	Top of ridge bears N.W. and S.E. descend
-	26.50	The cor. of secs. 28, 29, 32 and 33.
-	28.20	Land broken. Soil rocky - 4 th rate Limber scattering cedar and pines. Mountainous land 28.20 chs.
-	20.00	No' 03 W bet. secs 28 and 29 Enter scattering cedar and pines, descend Heavy scattering cedar and pines
	32.00	Enter dry lake bed
	40.00	Set a trachyte 14x8x5 ins 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W face. and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
	74.00	Heavy dry lake bed, ascend.
	77.00	Enter scattering cedar and pines.
-	80.00	Set a sandstone 16x10x8 ins. 12 ins. in the ground for cor. of secs. 20, 21, 28 and 29. marked with 2 notches on S. and 4 notches on E edges.

Subdivision of T. 29 S. R. 2 $\frac{1}{2}$ W. continued

Chains

from which:

A pine 10 ins. diam. bears N 84° 45' E 60 lbs. dist.
marked T. 29 S. R 2 $\frac{1}{2}$ W. S. 21 B.T.

A cedar 10 ins. diam. bears S 5° E 26 lbs. dist.
marked T. 29 S. R 2 $\frac{1}{2}$ W. S. 28 B.T.

A cedar 10 ins. diam. bears S 80° W. 21 lbs. dist.
marked T. 29 S. R 2 $\frac{1}{2}$ W. S. 29 B.T.

A pine 6 ins. diam. bears N 88° W. 49 lbs. dist.
marked T. 29 S. R 2 $\frac{1}{2}$ W. S. 20 B.T.

Sand broken

Soil rocky - 4 $\frac{1}{2}$ rate

Timber scattering cedars and pines

Mountainous land 80.00 chs

October 15. At this cor. I set off 80° 49' S
on the decl. side. and at 12 m l.m.t.
observing the sun on the meridian: the
resulting lat. is 38° 17' N

Each on a random line bet. sec 21 and 28

40.00 Set temp $\frac{1}{4}$ sec. cor.

79.94 Intersect N. and S. line 5 lbs N. of the cor. of
secs. 21, 22, 27 and 28.

Then I run

N 89° 58' W on a true line bet. secs. 21 and 28

Descending gradually

4.00 Hollow comes N.E. ascending

13.00 Top of ridge bears N.E. and S. W. descending in
scattering cedars and pines.

39.97 Set a sandstone 14 x 10 x 9 ins. 10 ins in the
ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face. and
raise a mound of stone 2 ft. high $\frac{1}{2}$ ft high
N. of cor. Pits impracticable.

55.00 Enter dry lake bed. Many cedars and pines

72.00 bears dry lake bed

78.00 Enter scattering cedars and pines.

- 79.94 The cor. of secs. 20, 21, 28 and 29

Sand broken

Soil rocky - 4 $\frac{1}{2}$ rate

Timber scattering cedars and pines

Mountainous land 79.94 chs

Subdivision of T. 29 S. R. 2½ W. continued.

cont.

- West on a random line bet. sec. 20 and 27
 27.80 Intersect N. bdy. of T. 29. at the cor. of secs. 27.
 24. 25 and 26. as heretofore described.
 Destroy all marks pertaining to secs 19 and
 30 and mark them for sec. 20 and 27.
 Thence I run.
 East on a line lying bet. secs. 20 and 27
 descending in scattering cedars and pines
 - 27.80 The cor. of secs. 20, 21, 28 and 27
 Bank broken.
 Soil rocky - 4th rate
 Limber scattering cedars and pines
 mountainous land 27.80 clso.
-

No° 03' W bet. secs. 20 and 21

ascend in scattering cedars and pines.

- 7.00 Top of ridge 400 ft above sec. cor. bears N.E and S.W.
 descend
 12.00 Hollow comes N.C. ascend
 36.00 Top of ridge bears E. and N. descend
 40.00 Set a sandstone 16 x 10 x 8 ins. 11 ins in the
 ground for sec. cor. marked $\frac{1}{4}$ x on W. face and
 raise a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high W.
 of cor. Pits impracticable.
 61.00 Gulch. comes S.E. ascend gradually
 - 80.00 Set a sandstone 18 x 12 x 7 ins. 12 ins in the ground
 for cor. of secs. 16, 17, 20 and 21. marked with 3
 notches and 4 notches on E. edges. and
 raise a mound of stones 2 ft. base 1 $\frac{1}{2}$ ft. high
 W. of cor. Pits impracticable
 A pine 12 ins. diam. bears S 45° E 146 clso.
 dist. marked T. 29 S. R 2½ W. S 20 B.T.
 No other bearing trees within limits
 Bank broken
 Soil rocky - 4th rate
 Limber scattering cedars and pines
 mountainous land 80.00 clso

Subdivision of T. 29 S., R. 2 1/2 W. Continued

- ains 58°05' E. on a random line bet. secs 16 and 21
40.00 Set. temp $\frac{1}{4}$ sec. cor.
79.96 Intersect N. and S. line 19 etc. N. of the cor. of
secs. 15, 16, 21 and 22.
Hence I run
 \checkmark 189°50' W on a true line bet. secs. 16 and 21
Enter scattering cedars and pines. descending 500 ft.
12.20 Canon comes N. E. ascending 600 ft.
39.98 Set a sandstone 14x10x8 ins. 10 ins in the ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face and raise a
mound of stones 2 ft. high $\frac{1}{2}$ ft. high N. of cor.
Pits impracticable.
51.50 Top of ridge bears N. and S. descending 600 ft.
69.00 Ravine comes S. ascending
The cor. of secs. 16, 17, 20 and 21
Sand broken
Soil rocky - 4th rate
Timber scattering cedars and pines.
mountainous land 79.96 clos.

- West on a random line bet. secs. 17 and 20
27.50 Intersect W. bdy. of Tp. 1 $\frac{1}{2}$ lbs S. of the cor.
of secs. 13, 17, 20 and 24 as heretofore described.
I destroy all marks pertaining to secs.
18 and 19 and mark them for secs 17 and 20
Hence I run
 \checkmark 58°05' E. on a true line bet. secs. 17 and 20
Ascend
11.50 Cross low ridge bears N. E. and S. W. descending 400 ft
- 27.50 The cor. of secs. 16, 17, 20 and 21
and broken soil. Rocky. 4th rate. No timber.
mountainous land 27.50 ins. Oct. 15-189
- N 0°08' W. bet. secs 16 and 17
Ascending in scattering cedars and pines.
20.00 Top of ridge bears N. E. and S. W. descend
on W. slope.
40.00 Set a trachyte 16x8x4 ins. 11 ins in the ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face from
which:
a pine 12 ins. diam. bears 587°30' E 50 lbs

Subdivision of T. 29 S. R. 2 $\frac{1}{2}$ W. Continued

ans

marked $\frac{1}{4}$ S. B.T.

A pine 6 ins. diam. bears $567^{\circ}30'W$ 47 lbs. dist.
marked $\frac{1}{4}$ S. B.T.

79.00 Cross ridge bears N.W. and S.E. descend.

- 80.00 Set a trachyte 16x8x8 ins. 11 ins in the ground
for cor. of secs. 8. 9. 16 and 17. marked with 4
notches and E. and S. edges. and raise a mound
of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor.

Ridge impracticable. On ridge bears N.W. and S
A cedar 6 ins. diam. bears $N0^{\circ}45'W$ 80 lbs. dist
marked T. 29 S. R. 2 $\frac{1}{2}$ W. S 8 B.T.

No other bearing trees within limits
and broken

Soil rocky - $\frac{4}{5}$ the rate

Timber scattering cedars and pines
mountainous land 80.00 est.

Oct. 16 - 1897. At this cor. at 8 $\frac{1}{2}$ 30 A.M. b.m. I set off 8. 18 $\frac{1}{2}$ m. to the
left and 9 $\frac{1}{2}$ ft. on the decl. side; and determine altitude and with a solar

S 89 $^{\circ}50' E$ on a random line bet. sec. 9 and 16

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.90 Intersect N. and S. line 23 lbs S. of the cor. of
secs. 9. 10. 15 and 16.

Hence 3 min

West on a tree line bet. secs. 9 and 16.

Ascend on N.E. slope of ridge in scattering
cedars and pines

39.95 Set a sandstone 16x12x10 ins. 11 ins. in the ground
for 4 sec. cor. marked $\frac{1}{4}$ on N. face; from which.
A pine 12 ins. diam. bears $N66^{\circ}E$. 41 lbs. dist.
marked $\frac{1}{4}$ S. B.T.

A pine 10 ins. diam. bears $525^{\circ}W$ 18 lbs. dist.
marked $\frac{1}{4}$ S. B.T.

45.10 Top of ridge bears N. and S. descend 500 ft.

67.00 Canon comes N. ascend

- 79.90 The cor. of secs. 8. 9. 16 and 17.
and broken

Soil rocky - $\frac{4}{5}$ the rate

Timber scattering cedars and pines
mountainous land 79.90 est.

Subdivision of T. 29 S. R. 2 $\frac{1}{2}$ W. continued

Chains.	
27.39	<p>N 89° 58' W on a random line bet. secs. 8 and 17 Intersect N. bdy. of Twp. 14th S. of the cor. of secs. 8, 12, 17 and 18 as heretofore described I destroy all marks pertaining to secs 7 and 18 and mark them for secs. 8 and 17. Thence I run, S 89° 57' E on a true line bet. secs 8 and 17 Descend 400 ft. in scattering cedars and pines. Having come N. ascend Ridge. Bear N 84° S. descend to The cor. of secs. 8, 9, 16. and 17. Land broken Soil rocky - 4$\frac{1}{2}$ rate Timber scattering cedars and pines Mountainous land 27.39 clrs.</p>
9.80 26.00 27.39	
10.00	<p>N 0° 03' W. bet. secs. 8 and 9 Descend 300 ft. in scattering cedars and pines. Descend gradually.</p>
40.00	<p>Set a lava stone 12x10x10 ins. 8 ins. in the ground for sec. cor. marked $\frac{1}{4}$ on W. face and raise a mound of stone 2 ft. base 1$\frac{1}{2}$ ft. high W. of cor. Pits impracticable Heavy cedars and pines.</p>
44.90	Head of gulch comes N. ascend 100 ft.
49.00	Top of ridge bears N. W. and S. E. descend
50.00	<p>Set a trachyte 14x8x6 ins. 10 ins. in the ground for cor. of secs. 4, 5, 8 and 9. marked with 5 notches on S. and 4 notches on E. edge and raise a mound of stone 2 ft. base 1$\frac{1}{2}$ ft. high W. of cor. Pits impracticable Land broken Soil rocky - 4$\frac{1}{2}$ rate Timber scattering cedars and pines Mountainous. Land 50.00 clrs.</p>

East on a random line bet. secs. 4 and 9

- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 50.00 Intersect N. and S. line at the cor. of secs 4
 and 10

Subdivision of T. 29 S. R. 2 $\frac{1}{2}$ W. Continued

	Thus far I run
17.50	West on a true line bet. secs. 4 and 9 descending gradually over rolling flat. Road bears N. W. and S. E.
40.00	Set a lava stone 14x10x6 ins. 10 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face and raise a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high N. of cor. Pits impracticable
67.00	Foot of mountain, ascend 300 ft.
80.00	The cor. of secs. 4, 5, 8 and 9.
$13^{\circ} 6' 0''$ $15^{\circ} 6' 0''$	Sand rolling and broken
	Soil rocky. $\frac{4}{5}$ th rate
	No timber
	Mountainous land 13.00 chs.
27.30	$N 89^{\circ} 57' W$ on a random line bet. secs 5 and 8 Intersect N. bdy. of 7 $\frac{1}{2}$ 1 $\frac{1}{2}$ chs. S. of the cor. of secs 1, 5, 8 and 12 as heretofore described. I destroy all marks pertaining to secs. 6 and 7 and mark them for secs. 5 and 8. Hence I run.
- 27.30	$S 89^{\circ} 55' E$ on a true line bet. secs 5 and 8 Descending along N. slope of mountain. The cor. of secs. 4, 5, 8 and 9. Sand broken Soil rocky $\frac{4}{5}$ th rate No timber Mountainous land 27.30 chs.
	October 16. At this cor. I set off. $9^{\circ} 15' S.$ on the decl. arc. and at 12 m. L. m. t., above the sun on the meridian: the resulting lat. is $38^{\circ} 19' N$.

$N 0^{\circ} 03' W$ on a random line bet. secs 4 and 5
40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.52 Intersect N. bdy. of 7 $\frac{1}{2}$ 8 chs. W. of the cor. of
secs. 4, 5, 32 and 33 as heretofore described.
Hence I run
South on a true line bet. secs. 4 and 5

Subdivision of T. 29 S. R. 2 $\frac{1}{2}$ W. Continued

chains

Over flat in dense brush	
24.25	Road bears N.W. and S.E.
27.00	Dry wash 18' lns. wide. 2 $\frac{1}{2}$ ft. deep comes W.W.
48.52	Sit a sandstone 16x12x6 ins. 11 ins. in the for $\frac{1}{4}$ sec. cov. marked ff on W face and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high W. of cov. Pits impracticable
72.00	Foot of mountains ascend 300 ft.
88.52	The cov. of secs. 4, 5, 8 and 9. Land rolling.
16.52 53.00	Soil rocky. $\frac{4}{5}$ th rate no timber mountainous land 16.52 chs.

Oct 189

General Description

This township is nearly all rough
and mountainous land, the soil being
rocky and unfit for cultivation.

There is considerable grass making it
suitable for grazing.

The timber comprises groves of aspen
and spruce. with scattering cedars and
pines. all unfit for anything except
fire wood.

There is no water in this township
except a few small springs.

There are no settlers.

There is no mineral found in this
township.

John J. Breckinridge
Kennebunk County
U.S. Deputy Surveyor.

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PAGE

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of _____

showing the respective capacities in which they acted:

_____, Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____, United States Deputy Surveyor, in surveying all those parts or portions of the _____

of the _____

meridian, _____ of _____, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for _____

_____, Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

Subscribed and sworn to before me this _____
day of _____, 189 _____ }



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, solemnly swear that, in performance of a contract received from _____, United States Surveyor General for _____, bearing date of _____, day of _____, A.D. 18____, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____, of the _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1840.

United States Deputy Surveyor

Signed by said _____, and sworn to before me }
this _____ day of _____, 18____ }

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Charlestown, Mass., October 12, 1860

The foregoing field notes of the survey of the land division of the township of South Weymouth, part of the Clarkville Precinct, Sudbury, Mass.,

Surveyed by John H. Jackson, G. Surveyor of Charlestown, under Contract No. 205, dated Oct. 12, 1860, having been rechecked, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Oct 15 1873 Jas C
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys is a correct copy, and has been correctly copied from the original notes on file in this office.

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BOOK A-250

No. 3 B.

FIELD NOTES

and East OF THE SURVEY OF THE

West & North boundaries of L. S. J. S. V.

of the Salt Lake Standard Meridian,
Utah of State

AS SURVEYED BY

John P. Jackson & *Formerly G. C. Parfitt*, United States Deputy Surveyors
 Under his Contract No. 208, dated October 20th, 1896
 Survey commenced October 16th, 1896
 Survey completed October 19th, 1896

6-161

	m. chs. ft.
N. Polley (high)	4 - 35 - 70 ¹
Closings	8 - 56 ¹
W. Polley (high)	2 - 33 - 60 ¹
W. " " (low)	3 - 50 - 00 ¹ / ₂ 8 ¹ / ₂ 3 ⁰
Closings -	8.25 ¹
E. Polley (high)	2 - 00 - 00 ¹

NAMES AND DUTIES OF ASSISTANTS.

Rev. Horatio Chapman

C. L. Johnson Chairman

Horace Rice Vice Chairman

Cas. Bohman Chairman

Joseph Johnson Chairman

Joseph Jollig Asst. Chairman

Mr. Preliminary affidavits see book B

BOOK A-250

INDEX DIAGRAM.

Township 28^c, Range 26^b

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Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

WE, and

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

....., *Chainman.*

....., *Chainman.*

Subscribed and sworn to before me this }
day of , 189 }



WE, and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., *Moundman.*

....., *Moundman.*

Subscribed and sworn to before me this }
day of , 189 }



WE, and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., *Axman.*

....., *Axman.*

Subscribed and sworn to before me this }
day of , 189 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., *Flagman.*

Subscribed and sworn to before me this }
day of , 189 }



North Boundary of T. 28. S. R. 24. W.

Chains

Oct. 16, 1897. at 8^h 55^m A. M. I. on C. I. set off 380.25 on the lat. sec., 8:07 S. on the decl. sec., and determine a true meridian with the solar alt. the cor. of C. 27. S. R. 24. W. which is a sandstone 6x12+10 mis. above ground, marked & situated as described by the Surveyor General.

Thence I run (To complete topographic book.)
East on a random line bet. Sps 27 & 28.
S. R. 24. W. setting temporary $\frac{1}{4}$ sec. &
sec. cor. at intervals of 40.00 chs. and
8.00 chs. and at 4 miles 35.70 chs.

intersect 8.50 chs. North of the cor. to Sps
27 & 28. S. R. 24. W. I. destroy all
marks pertaining to R. 24. W. from this
cor. and at point of intersection,
An aspen tree 6 mis. in diam. for doing cor. to
Sps 27 & 28. S. R. 24. W. marked C.C. R. 24.
W. in W. I. 27. S. in N.

T 28 S. 1/2 sec. S. sides; with 6 grooves
on N. S. E. W. sides; from which

On aspen 24 mis. in diam. bears S. 49° W
16 lbs. dist. marked T. 28. S. R. 24. W. 5. S. B.T.

On aspen 6 mis. in diam. bears N. 62° W 21 lbs
dist. marked T. 27. S. R. 24. W. 5. S. B.T.

Thence I run

West on a true line bet. Secs 1 & 36. Var 15° 57' E
Descend in spruce & aspens.

Leave timber.

40.00 Set a granite 18x10x4 mis. 12 mis. in the
ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N.
face, and raised a mound of stone
2 ft. base, 1 ft. high. N. of cor.
Its impracticable.

14.00 Hollow. come N. enter spruce & aspens
ascend.

80.00 Set a granite 16x12x6 mis. 11 mis. in the
ground for cor. to secs 1, 2, 3, 5 & 36. marked
1 notch on E. & 5 notches on W. edges. from
which

On aspen 8 mis. in diam. bears N. 37° 10' E

North boundary of T. 28 S. R. 2^h W. continued.

Chains	
	32 lks. dist.: marked T. 27. S. R. 2 ^h W. S. 36. B. T. On aspen 10 mis. in diam. bears N 33° E. 18' to dist.: marked T. 28. S. R. 2 ^h W. S. 1. B. T. On aspen 8 mis. in diam. bears N 14° 15' W. 27 lks dist.: marked T. 28. S. R. 2 ^h W. S. 2. B. T. On aspen 8 mis. in diam. bears N 71° W 14' lks dist.: marked T. 27. S. R. 2 ^h W. S. 35. B. T. Land. Top of high mountain. Soil. Granular & rocky 3 rd rate. Timber. Aspens & Spruce. Mountainous land. 80 chs. <i>October 16th 1897.</i>
	October 17, 1897. At 8 ^h 45 ^m A. M. C. m. t. I set-off 38° 26' on the lat. arc; 9° 30' S. on the decl. arc; and determine a true meridian with the solar at the cor. to secid 1. 2. 35 & 36. Hence I run West - on a true line bet. Secs 2 & 35 - Ascend gradually, in aspen and spruce. 35.20 Top of high ridge of mountain. bears N. W. 2 ^h S. E. Descend steep rocky hillside. Leave timber. 40.00 Set a granite 18x14x10 mis. 12 mis. in the ground for 1 st Sec. cor. marked 1/4 on N. face; and raised a mound of stone 2 ft. base, 1 1/2 ft. high. N. of Cor. Pit impracticable. - 80.00 About 1000 ft. below top of ridge. Set a granite 16x10x7 mis. 11 mis. in the ground for cor. to Secs 2. 3. 34 & 35. marked 2 notches on E. & 4 notches on N. edges; and raised a mound of stone 2 ft. base. 1 1/2 ft. high. N. of Cor. Pit impracticable. Land. broken. Soil. Rocky, 2 nd rate. Timber. Aspens & spruce on 35.20 chs. Mountainous land. 80 chs. <i>West - on a true line bet. Secs 3 & 34. Descend 150 ft. 20.00 Ravine, course S. W. 23.60 Ascend.</i>

North boundary of S. 28. S. R. 2d N. Continued.

- rain.
 31.00 Enter scattering Cedars & pines.
 33.00 South point of ridge. bears N. E. S. descend.
 40.00 Set a tract of $24 \times 10 \times 6$ min. 10 min. in the
 for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face;
 from which
 A pine 8 min. in diam. bears $N = 4^{\circ} 50' 17.61$ ths.
 dist: marked $\frac{1}{4}$ S. 18. T.
 A pine 4 min. in diam. bears $E = 40^{\circ} 55' 17.15$
 ths. dist: marked $\frac{1}{4}$ S. 18. T.
 66.25 Ravine. course N. W. Creek 2. Miles wide.
 H. H.
 68.00 Ascend 150 ft to
 76.00 Point of ridge, bears N. W. descend to
 80.00 Set a sandstone $16 \times 14 \times 8$ min. 11 min. in the
 round for cor. to Secs 3. 4. 8 & 14. marked
 3 notches on E. & N. edges; and raised a
 mound of stone 2 ft. base. 1 ft. high. N.
 of cor. This impracticable.
 Land. broken.
 Soil. Rocky, 4 ths.
 Timber. Scattering cedars & pines.
 Mountainous land 80 chs.

- Meet on a true line bet: Secs 4 & 5.
 Enter scattering cedars & pines. descend 60 ft;
 8.00 Gulch. course N. W. ascend 150 ft;
 16.50 Ridge. bears N. E. S. descend 600 ft.
 35.50 Gulch. course N. N. hence along N. slopes.
 40.00 Set a sandstone $14 \times 10 \times 5$ min. 6 ft in the
 ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face;
 from which
 A cedar 18 min. in diam. bears $E = 4^{\circ} 50' 36$ ths.
 dist: marked $\frac{1}{4}$ S. 18. T.
 A cedar 8 min. in diam. bears $N = 2^{\circ} 50' 17.19$ ths.
 dist: marked $\frac{1}{4}$ S. 18. T.
 Oct. 17. 1897. at this cor. I set off $9^{\circ} 55'$ S. on
 the decl. arc; and at $12^{\circ} 4^{\prime} 45.6$ M. L. C. oblique
 the sun on the meridian. the resulting lat.
 is $50^{\circ} 26' 57$.
 78.60 Road. bears N. E. 1/2 S. W.
 80.00 Gulch. course N. E. Set a granite $18 \times 10 \times 6$ min.

North boundary of T. 28. S. R. 24. W. Continued.

	Thru mts.	12 min. in the ground, for cor. to Secs 4. 5. & 22. Ref. 53. marked 4 notches on E. & 2 notches on W. edges; and raised a mound of stone 2 ft. base. 1/4 ft. high. N. of Cor. fits. impenetrable. Land. broken. Soil. Rocky. 4 th rate. Timber. Scattering cedars & pines. Mountainous land 80 chs.
		Rest on a line line bet. Secs 5. & 52. Ascend in scattering cedars & pines.
34.70		Point of ridge 50 ft. high. Bears N.E. descend.
34.50		Gulch 50 ft. deep. course N.E. ascend.
17.00		Point of ridge. bears N.E. descend.
33.45		Canon. course S.W. Road. bears N.E. & S.W.
34.55		Manning Creek 10 chs wide. 8 min. deep, flows S.W.
35.70		The Cor. to Tp. 27. S. R. 5 2 1/2 mi. n. Land. broken. Soil. Rocky. 4 th rate. Timber. Scattering cedars & pines. Mountainous land 55, 40 chs.

October 1st 1897.

West-bound of Oct. 28 & P. M. 24 W.

Sunny Commenced October 17th 1897, and
executed with a Girley mountain transit
& Girley sunspot transit, each with solar

I examine the adjustments of the
and correct the level and collimation
then to test the solar apparatus by
its indications, resulting from solar ob-
servations made during A.M. & P.M. hours
with a true meridian determined by
observations on Polaris, I proceed as follows;
At the cor. to Obs 28 & 29 d. 18^h 21^m 15^s W.
as heretofore described. Latitude 38° 20' N.
Longitude 112° 11' W. I set off 38° 20' on
lat. arc; 9° 36' S. on the decl. arc; and at
6 P.M. l.m.t. determine with the
a true meridian, and mark a point
thereof on a stone firmly set in the
ground 5 chs. N. of the cor.

O - 17th 1897

Oct. 17 At 11^h 36^m = A.M. l.m.t. I al-
Polaris at Lower Culmination, in accordance
with Manual of Instructions, and mark
a point in the line thus determined, on
stone already set 5 chs. N. of the cor.
this mark falls 0.2 m. West of the mark

- ad by the solar. Oct. 17, 1897.

18th 1897 At 8^h 50^m = A.M. l.m.t. I set off 38° 20'
on the lat. arc; 9° 51' S. on the decl. arc; and
marks the point in the true meridian
determined with the solar, by a cross on
the stone already set 5 chs. N. of the cor.
this mark falls 0.3 m. West of the true
meridian established by the Polaris obser-
vation.

The solar apparatus by P.M. and A.M.
observations, defines positions for true
meridians, respectively about 0.11" east
0.16" west of the meridians established by
Polaris observations. Therefore I conclude
the adjustments of the instrument are
satisfactory.

Great Boundary of S. 28. T. R. 2¹/₂ W. Continued

Distance	<p>The magnetic bearing of the true meridian at 9^h A.M. is N 15° 5' W. The angle thus determined, reduced by the Table, page 100, gives the mean Mag. decl. 10° 5' 4" E.</p> <hr/> <p>From the township cor. already des I now</p> <p>North on a random line along the W. bdry of S. 28. setting $\frac{1}{4}$ sec. of sec. Cor. at intervals of 40.00 chs. and at 483.60 chs. intersected 8.25 chs. east of the cor. to S. 27 E 18. S. R. 2¹/₂ W. I destroyed all marks from old cor. pertaining to S. 28. S. and set a granite 16 x 10 x 10 in. 11 in. in the ground for closing cor. to S. 28. S. R. 2¹/₂ W. marked C.C. on S. with a groove on E. & W. faces, and raised a mound of stone 2 ft. base. 1¹/₂ ft. high. E. of cor. Pits impracticable.</p> <p>Thence I now</p> <p>South on a true line bet. Secs 1 & 6. Beds scattering cedars 8 min. ascend 300 ft; Top of ridge. Beds in E. & S. W. ascend 48.60 Set a granite 16 x 10 x 8 in. 11 in. in the ground for $\frac{1}{4}$ sec. Cor. marked $\frac{1}{4}$ on W. face. and raised a mound of stone 2 ft. base. 1¹/₂ ft. high. W. of cor. Pits impracticable.</p> <p>49.50 Road. bears E. & S. W.</p> <p>- 83.60 Set a granite 16 x 14 x 7 in. 11 in. in the ground for cor. to Secs 1. 5. & 8 E 1/2 W. marked 1 notch on R. & c-matches on L. edges; and raised a mound of stone 2 ft. base. 1¹/₂ ft. high. W. of cor. Pits impracticable. This will be found W. and broken.</p> <p>Soil. Rocky. 4 miles.</p> <p>Timber. Scattering cedars 8 min.</p> <p>Circumstances land 83.60 chs "</p>
	<u>October 18th 1897</u>

West boundary of V-28 S. R. 2nd W. Continued.

Chains 130. 131.	<p>South on a true line bet. decs 8 & 12. Enter scattering cedar & pine. descend 200 ft.</p> <p>12.00 Canon. course N.</p> <p>12.50 Creek, 3 lhos. wide. flows N. ascend</p> <p>13.00 Ridge 600 ft. high. bears E. E. N. descend</p> <p>13.50 Ravine. course S. W. ascend</p> <p>14.10 Road. bears N. E. E. S. W.</p> <p>14.50 Same road. bears N. W. E. S. E.</p> <p>15.20 Ridge bears E. E. N.</p> <p>15.75 Same road. bears N. E. E. S. W. descend.</p> <p>16.00 Det. a granite 14x8x8 ins. 4 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face, and raised a mound of stone 2 ft. base, 1 1/2 ft. high. W. of cor. Bits impracticable.</p> <p>16.50 Det. a granite 16x10x7 ins. 11 ins. in the ground for cor. to decs 8, 12, 13 & 17. marked 2 notches on N. and 4 notches on S. edges; and raised a mound of stone 2 ft. base, 1 1/2 ft. high. W. of cor. Bits impracticable Land. broken.</p> <p>Sub. Rocky. 24 lhos. alt., Timber. Scattering Cedars & pines. Mountainous land 80 chs.</p>
131.	<p>South on a true line bet. decs 13 & 17.</p> <p>Enter scattering cedar & pine. descend 50 ft.</p> <p>1.00 Gulch. course S. W. ascend</p> <p>14.00 Ridge. bears N. E. E. N. descend</p> <p>15.00 Foot of mountain. leave cedar & pine entire flat.</p> <p>15.45 Road. bears N. W. E. S. E.</p> <p>16.92 Dry wash 10 lhos. wide. 2 1/2 ft. dep. course W. W.</p> <p>17.00 Det. a granite 16x12x10 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face, and raised a mound of stone 2 ft. base, 1 1/2 ft. high. W. of cor. Bits impracticable.</p> <p>17.50 Dry wash 15 lhos. wide - 3 ft. dep. course W. W.</p> <p>18.70 Road. bears N. W. E. S. E.</p> <p>19.00 Det. a sandstone 16x12x10 ins. 11 ins. in the</p>

Meet-boundary of U.S.G. & P. 24 M. Cont.

Chains	ground for cor. to Secs 13, 17, 20 & 24 marked 3 matches on N. & S. edges, and raised a mound of stone 2 ft. base, 1 ft. high. W. of cor. Pits impracticable. Land. broken & rolling. Soil. Rocky & gravelly, 4" brds. Timber. Slanting cedar & pines on 30 elev. Mountainous land 30 elev.
32	South on a true line bet. Secs 20 & 24 Ascend gradually. 40.00 Ridge. bears E. & W. set a trachyte 16x12x8 ins. 11 ins. in the ground for 1/4 sec. Cor. marked 1/4 on W. face, and raised a mound of stone 2 ft. base, 1 1/2 ft. high. W. of cor. Pits imprac- ticable. Descend 52.00 Head of gulch 60 ft. deep. course W. ascend 58.00 Ridge. bears E. & W. descend 150 ft. Dry canon. course W. 69.00 Dry wash 20 Chrs. wide. 3 ft. deep. course W. ascend 70.70 Set. a trachyte 16x10x10 ins. 11 ins. in the ground for cor. to Secs 20, 24, 25 & 29 marked 1 match on N. & 2 matches on S. edges, and raised a mound of stone 2 ft. base, 1 1/2 ft. high. W. of cor. Pits impracticable. Land. broken & rolling. Soil. Rocky, 4" brds. Timber. No timber at the point set off
37	South on a true line bet. Secs 20 & 24. Ascend 50 ft. to Top of ancient bear. E. & W. descend gradual- ly. 44.50 Head. bears E. & W. 15.70 Set. a trachyte 14x8x8 ins. 9 ins. in the ground for 1/4 sec. Cor. marked 1/4 on W. face, and raised a mound of stone 2 ft. base 1 1/2 ft. high. W. of cor. Pits impracticable Oct. 19. At this cor. I set off 10' 17" S. on the due elev; and at 12' 4" N. elev. to obtain the am on

West boundary of T. 28. S. R. 2½ W. Continued.

Chains.	
61.00	the meridian. the resulting lat. is $38^{\circ} 21' N.$ Ditch 2 lks wide. 8 ins. deep. course S. W. Road. bears W. W. & S. E.
76.34	Set a brachy to $14 \times 8 \times 6$ ins. 9 ins. in the ground for Cor. to Secs $25, 29, 32 \frac{1}{2}, 36$.
80.00	marked 5 notches on W. and 1 notch on S. edges; and raised a mound of stone 2 ft. base. 1½ ft. high. W. of Cor. Pts impracticable land. rolling.
	Soil. Rocky & Granelly. 3 rd rate. No timber.
131	South on a true line bet. Secs $32 \frac{1}{2}, 36$. Over rolling flat.
24.00	Dry wash 20 lks wide. 3 ft. deep. course W. W.
36.30	Dry wash 10 lks wide. 2½ ft. deep. course W. W.
40.00	Set a brachy to $14 \times 8 \times 5$ ins. 9 ins. in the ground for ¼ sec. Cor. marked ¼ on. W. face; and raised a mound of stone 2 ft. base. 1½ ft. high. W. of Cor. Pts impracticable
44.30	Dry wash 10 lks wide. 3 ft. deep. course W. W.
60.70	Dry wash. 8 lks wide. 2 ft. deep. course W. W.
74.30	Road. bears W. W. & S. E.
79.60	Dry wash 10 lks wide. 2 ft. deep. course W. W.
80.00	The Cor. to Secs $28 \frac{1}{2}, 24 S., 17 \frac{1}{2}, 2 \frac{1}{2}, 3, 17$. Land. rolling. Soil. Granelly & Rocky. 3 rd rate. No timber.

October 17 " 1897.

East Boundary of T. 28 S. R. 2 N. Vt.

Chains

Oct. 16th 1897. At the cor. to Secs 25 & 29. S. R.
 2^{1/2} W. as heretofore described
 At 8^h. 15^m = a. m. C. m. t. I set off 38.20' on the
 Cat. arc; 5° 07' S. on the decl. arc; and estab-
 lished a true meridian with the solar.

Thence I run

North along the E. side of Sec. 36.
 Ascend.

- 9.00 Ridge. bears N. E. & S. W. descend.
- 14.10 Head of Canon 150 ft. deep. comes S. W. ascend.
- 24.10 Thru 1/4 Sec. Cor. betw. Secs 31 & 36. as heretofore
 described. I destroy all marks pertaining to
 Sec. 36.
- 40.00 Set a porphyry stone 24 x 12 x 10 ins. 18 ins. in
 the ground for 1/4 Sec. Cor. ^{to Sec. 36} marked 1/4 on W.
 face; from which
 A spruce 10 ins. in diam. bears N. 57° W. 65.00'
 dist. marked 1/4 S. 36. B. T.
- A spruce 6 ins. in diam. bears N. 34° 20' W. 62.00'
 dist. marked 1/4 S. 36. B. T.
- 40.10 Top of ridge. bears N. E. & S. W.
- 40.50 Enter spruce & aspen. descend.
- 57.10 Leave spruce.
- 57.10 Head of Canon. comes S. W. ascend.
- 64.10 Thru Cor. to Secs 25. 30. 31 & 36. as heretofore
 described. I destroy all marks pertaining
 to Secs 25 & 36.
- 70.10 Ridge. bears E. & W. descend gradually in
 aspens.
- 76.10 Leave aspens.
- 79.00 Hollow. comes W. ascend gradually.
- 80.00 Set a sandstone 18 x 16 x 14 ins. 12 ins. in
 the ground. for Cor. to Secs 25 & 36. marked
 1 notch on S. and S. notches on N. edges; and
 raised a mound of stone 2 ft. base. 1 1/2 ft.
 high. 1/4 of Cor. pits impracticable.
- Ground rolling.
- Soil. Gravelly & rocky. 3rd rate.
- Timber. aspens & shrubs.
- Mesothermal land. 80 chs.

East-boundary of T. 28, S. R. 2 & W. continued.

Diams	North along the E. side of Sec. 25. Ascend gradually.
1.90	Enter aspens.
5.80	Top of ridge. bears E. & W. enter spruce. descend.
9.35	Top of sandstone cliffs. 100 ft. high.
9.85	Foot of cliffs.
24.10	Line $\frac{1}{4}$ Sec. Cor. bet. Secs 25 & 30. as heretofore described. I destroy all marks pertaining to Sec. 25.
36.00	Gulch. 1500 ft. below ridge. course N. W. leave spruce, enter making any Ed oak brush, ascend Set-a-trachyte 16x8x5-in. 11 ins. in the ground for $\frac{1}{4}$ Sec. Cor. line 25. at point of dip falls N.W. marked $\frac{1}{4}$ on W. face; and raised a mound of stone 2 ft. base, 16 ft. high. W. of Cor. Pits imprac- ticable.
40.00	A pine 10 ins. in diam. bears S 48° 50' W. 35' Dist. marked $\frac{1}{4}$ 5. 25. B. T. No other bearing trees within limits.
40.10	Point of ridge. 80 ft. high. falls. W. W. descend.
46.50	Canyon, course W. W. road. bears N. W. E. & S. E. ascend.
50.10	Ridge. 300 ft. high. bears E. & W. descend.
57.60	Tributary Canyon, course W. creek 4 lks wide. flows W. enter aspens.
58.10	Canyon road. bears E. & W. leave aspens as
64.10	The Cor. to Secs 19, 24, 25 & 30. as heretofore described. I destroy all marks pertaining to Secs 24 & 25.
69.50	Ridge. 250 ft. high. bears E. & W. descend.
50.00	Set-a-trachyte 16x10x6-in. 11 ins. in the ground for Cor. to Secs 24 & 25. marked 2 notches on S. & 4 notches on N. edges; and raise a mound of stone 2 ft. base, 16 ft. high. W. of Cor. Pits impracticable. Land. broken.
	Soil. Rocky. 4 brnls.
	Timber. Spruce & aspen.
	Moorlandous land 80 chs.
	It is impossible to continue this line

Cast.

of S. 28. S. R. 2d W. Continued.

Worth through the township on account
of impassable cliffs & bluffs.

Octo^r 6th 18 " "

Note; For General Description see Sub-
division of this township.

John J. Beckow
Homer M. C. Earley
U. S. Deputy Surveyors.

Volume

#

R0250

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____

_____, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of _____

showing the respective capacities in which they acted:

_____, *Chainman.*

_____, *Chainman.*

_____, *Moundman.*

_____, *Moundman.*

_____, *Axman.*

_____, *Axman.*

_____, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____

_____, United States Deputy Surveyor, in surveying all those parts or portions of the _____

of the _____

_____ meridian, _____ of _____, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for _____

_____, *Chainman.*

_____, *Chainman.*

_____, *Moundman.*

_____, *Moundman.*

_____, *Axman.*

_____, *Axman.*

_____, *Flagman.*

Subscribed and sworn to before me this _____ }

day of _____, 189 }



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, , United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from United States Surveyor General for , bearing date of the day of , 189 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for , the Manual of Surveying Instructions, and the Laws of the United States, surveyed all those parts or portions of

..... of the meridian, in the of , which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor.

Subscribed by said , and sworn to before me }
this day of , 189 }

000000
SEAL
000000

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

John T. Prentiss, U.S. Surveyor General, 1890

The foregoing field notes of the survey of the Lake Huron Coast Boundary, Erieau, Sault Ste. Marie, 2½ Miles West of the Michigamme Mine, Michigan, USA,

executed by *John T. Prentiss, U.S. Surveyor General*,
under his contract No. 208, dated October 20th, 1890, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Jacob F. Blaine

United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in , has been correctly copied from the original notes on file in this office.

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BOOK A-250

263.13

FIELD NOTES

OF THE SURVEY OF THE

Subdivision of East St. Alb's Vt.

of the Salt Lake Meridian and Meridian,
City of St. Alb's.

AS SURVEYED BY

John W. Lathrop & Company, United States Deputy Surveyors
Under ~~No.~~ Contract No. 268, dated October 26, 1896.
Survey commenced October 15, 1896.
Survey completed October 26, 1896.

Feet - (high) 24-77-05
" " (low) 11-78-16

36-63°

BOOK

NAMES AND DUTIES OF ASSISTANTS.

Mr. Mariano Chairman

P. H. Mariano Chairman

Mr. Bulman Chairman

Frank Johnson Chairman

Thomas Water Armand Mandan

Joseph Gollie Armand Mandan

In preliminary affidavits see book C-

-131

Volume

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BOOK A-250

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Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

WE, and

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

....., Chainman.

....., Chainman.

Subscribed and sworn to before me this }
day of , 189 }



WE, and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., Moundman.

....., Moundman.

Subscribed and sworn to before me this }
day of , 189 }



WE, and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., Axman.

....., Axman.

Subscribed and sworn to before me this }
day of , 189 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., Flagman.

Subscribed and sworn to before me this }
day of , 189 }



Subdivision of T. 28 S. R. 2 $\frac{1}{2}$ W.

Survey commenced October 16th 1897
and executed with Gurley Surveyor
transit and Gurley Mountain transit,
each with solar attachment.

I examined the adjustments of the
transits, and correct the level and col-
limation errors; then to test the solar
apparatus, by comparing its indications
resulting from solar observations made
during A. m. and p. m. hours, with a
true meridian determined by observa-
tions on Polaris. I proceed as follows:

At the cor. to sec 1-2-35 and 36 on S. bds.
Lat. $38^{\circ}26'N$. long $112^{\circ}08'W$
of L. I set off $38^{\circ}20'$ N. of the lat. arc,
 $9^{\circ}18'S$ on the decl. arc and at 3 h 15 a. p. m.
L. m. t. determine with the solar a true
meridian and mark a point thereof,
on a stone firmly set in the ground
5 chs. N. of the corner.

At 5 h. 44 m p. m. L. m. t. I observe Polaris
at eastern elongation in accordance with
Manual of Instructions and mark a
point in the line thus determined, on
a peg driven in the ground 5 chs. N.
of my station.

October 16th 1897

October 17th: At 6 h. 20 m. a. m. L. m. t.
I lay off the azimuth of Polaris $1^{\circ}35'$ to the
west, and mark the true meridian
thus determined, by cutting a small
groove in the stone set October 16th, on
which the true meridian falls 0.4 ins.
east of the mark determined by the solar.
At 8 h. 20 m. a. m. L. m. t. I set off $38^{\circ}20'$
on the lat. arc; $9^{\circ}28'S$ on the decl. arc;
and mark a point in the true meridian
determined with the solar, by a cross on
the stone already set 5 chs. N. of my
station; this mark falls 0.8 ins. east of the
true meridian established by the Polaris

Subdivision of T. 28 S. R. 2 $\frac{1}{2}$ W. continued.

observation.

The solar apparatus by p. m. and a.m. observations, defines positions for two meridians, respectively about $0^{\circ}21'$ west and $0^{\circ}16'$ east of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8 h 50 m a.m. is N. $15^{\circ}57'$ W.; the angle thus determined, reduced by the table, page 100 gives the mean, mag. decl. $N. 15^{\circ}54' E.$

From the cor. to secs. 1-2-35 and 36, on S. bdy. of T.G. as heretofore described
Thence I run

N. $0^{\circ}01' W$ bet. secs. 35 and 36

Descend in scattering cedars and pines.

27.00 Canon 500 ft. deep. course west. ascend

40.00 Set a trachyte 18 x 14 x 8 ins. 12 ins in the ground. for $\frac{1}{4}$ sec cor. marked $\frac{1}{4}$ on face; and raise a mound of stone. 2 ft base. $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable.

62.80 Top of ridge. bears N.E. and S.W. descend along west slopes.

- 80.00 Top of ridge. bears N.W. and S.E.
Set a trachyte 18 x 14 x 8 ins. 12 ins. in the ground for cor of secs. 25-26-35 and 36 marked with 1 notch on S. and E. edges, and raise a mound of stone 2 ft base $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable. and broken.

Soil rocky - 4th rate.

Timber - scattering cedars and pines
Mountainous land 80.00 chs.

Cast on a random line bet. secs 25 and 36

40.00 Set temp. $\frac{1}{4}$ sec cor.

Subdivision of T. 28 S. R. 2 $\frac{1}{2}$ W. Continued.

- ams
 80.00 Intersect E. bdy. of S. at the cor. of
 secs. 25 and 36. as heretofore described.
 Thence I run.
 West on a true line bet. secs. 25 and 36
 descend over open flat.
 17.00 Enter aspen.
 20.00 Leave aspen.
 30.00 Enter aspen and spruce. descend steep
 mountain side.
 40.00 Set trachyte 16x10x9 ins. 12 ins in the
 ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N.
 face; and raise a mound of stone 2 ft.
 bas. $\frac{1}{2}$ ft high W. of cor. Pits impercepti-
 cable. No bearing trees within limit.
 Leave aspen - Enter scattering cedars
 56.00 Cross ridge bears N.E. and S.W.
 - 80.00 Th. cor. of secs 25, 26, 35 and 36
 Land broken
 Soil rocky - $4\frac{1}{2}$ rate
 timber. aspen and spruce and scattering
 cedars.
 Mountainous land 80.00 obs.

$NO^{\circ} 01' W$ bet. secs 25 and 26
 descent about 500 ft.

- 40.00 Set trachyte 12x8x4 ins. 8 ins in the
 ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N.
 face; and raise a mound of stone 2 ft.
 bas. $\frac{1}{2}$ ft high W. of cor. Pits impercep-
 tible. enter scattering cedars and pines
 51.00 Enter bottom of canon, course west
 53.75 Libadory creek 3 links wide, course west
 54.00 canon road bears E. & SW.
 56.00 Leaves bottom. ascend about 500 ft.
 80.00 Set a granite 15x12x5 ins. 10 ins in
 the ground for cor. of secs. 23, 24, 25 and 26
 marked with 2 notches on S. and 1 notch
 on E. edges, and raise a mound of stone
 2 ft. bas. $\frac{1}{2}$ ft high W. of cor. Pits im-
 perceptible

Subdivision of P. 28 S. R. 2 $\frac{1}{2}$ W. Continued

chains	<p>a pine 12 ins. diam. bears N 28° E 76 lbs. dist. marked T. 28 S. R. 2$\frac{1}{2}$ W. S 24. B. T.</p> <p>a cedar 12 ins. diam. bears S 69$\frac{1}{2}$ E. 31 lbs. dist. marked T. 28 S. R 2$\frac{1}{2}$ W. S 25 B. T.</p> <p>a pine 14 ins. diam. bears S 75° W 57 lbs. dist. marked T. 28 S. R. 2$\frac{1}{2}$ W. S 26 B. T.</p> <p>No other bearing trees within limits. Land broken Soil rocky - 4$\frac{1}{2}$ ft. rate Timber - scattering cedars and pines mountainous land 80.00 lbs.</p>
40.00	East on a random line bet. secs 24 and 25 Set a temp $\frac{1}{4}$ sec. cor.
80.02	Entered E. bdy. of Lp. at the cor. of secs. 24 and 25 as heretofore described. Then threw on a true line between secs. 24 and 25 descending 100 ft in scattering mahogany and oak.
2.00	Ravine S. W. ascend
12.50	Top of ridge. bears N. W. and S. E. descending
14.00	Gulch 60 ft. deep. comes S. E. ascend
17.00	Top of ridge. bears N. W. and S. E. descending
18.25	Gulch. 100 ft. deep. comes S. ascend
24.00	Top of ridge. bears N. W. and S. E. descending
26.00	Gulch 60 ft. deep comes S. ascend
36.00	Top of ridge. bears N. W. S. enter scattering cedars and pines. descend
40.01	Set a trachyte 18x12x8 ins. 12 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face from which
	a pine 12 ins. diam. bears S 74° 10' E 26 lbs. dist. marked $\frac{1}{4}$ S. 25 B. T.
	a pine 12 ins. diam. bears S 18° 40' W 52 lbs. dist. marked $\frac{1}{4}$ S. 25 B. T.
46.80	Gulch 200 ft. deep comes S. ascend
58.00	Top of ridge bears N. & S. descend
71.00	Ravine. comes S. W.
- 80.02	Ls. cor. of secs 23, 24, 25 and 26

Subdivision of T. 28 S. R. 2 $\frac{1}{2}$ W. continued

Chains	<p>Land broken. Soil rocky - $\frac{4}{5}$ rate. Limber - scattering cedars, pines, oak and mahogany. Mountainous land 80.02 chs.</p>
	October 17 1898
	As it is impossible to continue N. bet. secs 23 and 24 on account of bluffs and cliffs from the cor. to secs. 2, 3, 3X and 35 are S. bdy. of Tp. no benthofore described Hence I run
10.00	N 0° 01' W bet. secs. 34 and 35
	Enter scattering cedars and pines
15.00	Ascend 175 ft.
19.50	Top of ridge bears N.E and S.W.
25.00	Descent 100 ft.
26.00	Ravine, comes W.
40.00	Set a trachyte 12x9x8 ins. 8 ins in the ground for 1/4 sec. cor. marked $\frac{1}{4}$ on W. face. from which A pine 9 ins. diam. bears S 25° 10' E 96 lbs. dist. marked $\frac{1}{4}$ S. 35 B. T.
	A pine 6 ins. diam. bears S 29° 20' W 58 lbs. dist. marked $\frac{1}{4}$ S. 34 B. T.
	Ascend along mountain side.
80.00	Set a trachyte 15x8x6 ins. 10 ins in the ground for cor. of secs 26, 27, 3X and 35 marked with 1 notch on S. and 2 notches on E. edge. from which. A pine 12 ins. diam. bears N 32° 05' E 34 lbs. dist. marked T. 28 S. R. 2 $\frac{1}{2}$ W. S. 26 B. T. A pine 9 ins. diam. bears S 22° E 128 lbs. dist. marked T. 28 S. R. 2 $\frac{1}{2}$ W. S. 35 B. T. A pine 9 ins. diam. bears S 42° 35' W 28 lbs. dist. marked T. 28 S. R. 2 $\frac{1}{2}$ W. S. 34 B. T. A pine 6 ins. diam. bears N 45° 05' W 42 lbs. dist. marked T. 28 S. R. 2 $\frac{1}{2}$ W. S. 27 B. T. Land broken Soil rocky - $\frac{4}{5}$ rate Limber scattering cedars and pines Mountainous land 80.00 chs.
	October 18. At this cor., at 8 h. 30 m. L. gmt. set off 38° 21' on the lat arc. 9° 51' on the decl arc. and determine a true meridian with the solar.

Subdivisions of T. 28 S. R. 2 $\frac{1}{2}$ W. Continued

- East on a random line bet. secs 26 and 35
- 40.00 Set trap. $\frac{1}{4}$ sec. cor.
- 79.94 Intersect N and S. line at cor. of secs 25, 26
35 and 36.
Hence I run
- West on a true line bet. secs 26 and 35
descend along steep side of mountain
through scattering cedars and pines.
- 39.97 Set a trachyte 10x8x5 ins. 12 ins in the
ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face
and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft.
high N. of cor. Pits impracticable.
- 78.00 Cross ridge bears N. W and S.E.
- 79.94 Lk cor. of secs 26, 27, 34 and 35
Sand broken
Soil rocky. 4^{th} rate
Limber scattering cedars and pines.
Mountainous land 79.94 chs.

- 0° 0' W bet secs 26 and 27
- Enter scattering cedars and pines.
- 5.00 descend 100 ft.
- 21.00 Ravine. course N. ascend
- 37.00 Lip of ridge bears E and W. descend
- 40.00 Set trachyte 18x14x8 ins. 12 ins in the
ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. f.
and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft.
high W. of cor. Pits impracticable.
- 41.00 Ravine course W. ascend
- 52.00 Lip of ridge bears N. W & S.E. descend
200 ft over ledges.
- 64.00 Enter bottom of canon
- 64.40 Tibadore creek 3 lks. wide course N.W.
- 64.60 Canon road bears N. W and S.E.
ascend 200 ft.
- 69.60 Ledges.
- 80.00 Set a trachyte 10x10x3 ins. 10 ins in
the ground for cor of secs 22, 23, 26 and
27. marked with 2 notches on S. and E.
edges. from which

Subdivision of T. 28 S. R. 2½ W. continued

A pine 10 ins. diam. bears N 12° 55' E 39 lbs.
dist. marked T. 28 S. R. 2½ W. S. 23 B. T.
A pine 8 ins diam. bears S 50° 45' E 21 lbs.
dist. marked T. 28 S. R. 2½ W. S. 26 B. T.
A pine 14 ins. diam. bears S. 53° 05' W 25 lbs.
dist. marked T. 28 S. R. 2½ W S. 27 B. T.
A pine 14 ins. diam. bears N 17° 35' W 121 lbs.
dist. marked T. 28 S. R. 2½ W S. 22 B. T.
Lands broken
Soil rocky - ~~4th~~ rate.
Timber - scattering cedars and pines.
mountainous land 80.00 chs.

East on a random line bet. secs 23 and 26

40.00 Set tumb $\frac{1}{4}$ sec. cor.
79.90 Intersect N and S line at cor. of secs
23.24.25 and 26.

Thence 3 sec

West on a line line bet. secs. 23 and 26.

Descending through scattering cedars and /

14.00 ledge 125 ft high
35.00 descending on ridge bearing E & W
39.95 Set trachyte 12 x 9 x 4 ins. 8 ins. in the
ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N
face. from which.

a cedar 14 ins. diam. bears N 63° 30' W 9 lbs.
dist. marked $\frac{1}{4}$ S. 23 B. T.

A cedar 10 ins. diam. bears S 44° W 33 lbs.
dist. marked $\frac{1}{4}$ S. 26 B. T.

49.00 Ravine. comes S.

60.00 Ascend 125 ft.

79.90 The cor. of secs. 22. 23. 26 and 27
Lands broken

Soil rocky - ~~4th~~ rate

Timber - scattering cedars and pines
mountainous land 79.90 chs.

N 0° 01' W between secs 22 and 23

ascending along mountain side through

Subdivision of T. 28 S. R. 27 E. W. Continued

Chains	
	scattering Cedars and pines
11.00	Top of ridge bears E. and W.
36.50	Crook's ridge. bears N.W. and S.E. descending 50 ft.
40.00	Set a granite 18x11x4 ins. 12 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face. and raises a mound of stone 2 ft. base. 1 1/2 ft. high W. of corner. Pits impracticable.
	A cedar 10 ins diam. bears S 80° 30' W 137 the dist. marked 1/4 S. 22 B. T. no other bearing trees within limits descending
42.00	Ravine course W.W. ascending 100 ft.
50.00	West point ridge bears S.E. & N.W. descending 70 ft.
69.00	Dry canon course S.W. creek 4 lbs wide flows S.W. descending over granite ledges.
69.50	
- 80.00	Set a granite 24x10x10 ins. 16 ins in the ground, for cor. of secs 14, 15, 22 and 23 marked with 3 notches on S. and 2 notches on E. edges, and raises a mound of stone 2 ft. base. 1 1/2 ft. high W. of cor. Pits impracticable
	A pine 6 ins diam. bears S 80° W 6 lbs dist. marked T. 28 S. R 2 1/2 W S 22 B. T. No other bearing trees within limits found broken
	Soil rocky - 4 th rate.
	Limber - scattering cedars and pines
	Mountainous long 80.00 chs.

As it is impossible to run each bet. secs 14 and 23 on account of bluffs and cliffs
Thence I run
 $N 0^{\circ} 01' W$ bet. secs 14 and 15
ascending over ledges

6.00	Top of ledge 100 ft high descended
10.00	Gulch 150 ft. deep. Course E.
25.75	Gulch 150 ft. deep Course E. ascending on E. slopes of ridge through scattering cedars and pines
32.00	Cross ridge. bears N.E. and S.W.

Subdivision of T. 28 S. R. 2 $\frac{1}{2}$ W continued

chains

- 40.00 Set a trachyte 18x6x6 ins. 12 ins in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, from which
a pine 6 ins. diam. bears $347^{\circ}35'E$ 72 chs.
dist. marked $\frac{1}{4}$ S. 14 B. T.
A pine 12 ins. diam. bears $N60^{\circ}45'W$ 120 chs.
dist. marked $\frac{1}{4}$ S. 15 B. T.

Ascend

- 70.00 Top of ridge bears N. E. and S. W. descending
75.50 Gulch course S. W.
80.00 Set a granite 16x10x6 ins. 11 ins in
the ground. for cor of secs. 10, 11, 14 and 15
marked with 4 notches on S. and 2
on E. edges, and raise a mound of
stone 2 ft base, $1\frac{1}{2}$ ft high N. of cor. Pits
impracticable.
Sand broken
Soil rocky - 4 $\frac{1}{2}$ ft rate
Limber scattering cedars and pines
Mountainous land 80.00 chs.

Oct. 18. I set off. 90565. on the sec.
line and at 12 m. l. int. assume
the sun on the meridian: the resulting
lat. is. $38^{\circ}24'N$ at the cor of secs 11
14 and 15.

Thereof I run.

East between secs 11 and 14

Descending 50 ft.

- 3.00 Head of ravine comes S. W. Ascend 100 ft.
24.60 Top of ridge bears N.E. and S. W. descending 100 ft.
29.50 Head of gulch. comes S. Ascend 60 ft.
33.50 Top of ridge bears N. & S. descending 200 ft.
38.50 Gulch. comes S. Ascend
40.00 Set a granite 16x14x6 ins. 11 ins in the
ground for $\frac{1}{4}$ sec cor. marked $\frac{1}{4}$ on N. face
and raise a mound of stone 2 ft base $1\frac{1}{2}$ ft
N. of corner. Pits impracticable
Sand broken, Soil rocky - 4 $\frac{1}{2}$ ft rate. no timber
Mountainous land 40.00 chs.
impossible to continue this line on account

Subdivision of T. 28. S. R. 2 $\frac{1}{2}$ W. Continued

ains	N 0° 0' W bet. secs 10 and 11 Ascend 400 ft.
18.00	Top of ridge bears N. W and S.E. descend
32.50	Head of ravine comes N.W. ascend.
40.00	Set a granite 16x12x8 ins. 11 ins in ground for $\frac{1}{4}$ sec cor. marked $\frac{1}{4}$ on N. face, and raise a mound of stony 2 ft. base 1 $\frac{1}{2}$ ft. high W. of cor. Pits impec- cable.
63.00	Top of ridge bears N. W and S.E. descend.
80.00	Set a trachyte 12x8x6 ins. 8 ins in the ground for cor of secs. 2. 3. 10 and 11 marked with 5 notches on S. and 2 on E. edges. and raise a mound of stony 2 ft. base 1 $\frac{1}{2}$ ft high W. of corner. Pits impecable.
	Land broken
	Soil rocky - 4 $\frac{1}{2}$ rate no timber.
	Mountainous land 80.00 chs.
<hr/>	
	East between secs. 2 and 11
	Ascend gradually.
14.00	Foot of high rough mountain
- 40.00	Set a trachyte 18x12x10 ins. 12 ins in the ground for $\frac{1}{4}$ sec cor. marked $\frac{1}{4}$ on N. face and raise a mound of stony 2 ft. base 1 $\frac{1}{2}$ ft high N. of cor. Pits impecable
	Land broken
	Soil rocky - 4 $\frac{1}{2}$ rate
	No timber
	Mountainous land 40.00 chs.
	It is impossible to continue this line in account of cliffs and bluffs.
<hr/>	
	N. 0° 0' W on a random line bet. secs. 2 and 3.
40.00	Set temp $\frac{1}{4}$ sec. cor.
83.00	Intersect N. bdy. of Twp. at cor of sec

Subdivision of T. 28 S. R. 2 $\frac{1}{2}$ W. continued

Chains

	2. 3. 34 and 35. as heretofore described Thence I run.
	50° 01' E on a long line bet. secs 2 & 3 Enter scattering cedars and pines Descent 100 ft.
8.00	Broken and uneven country sloping W. Cross ridge bearing N.E. and S.W.
41.00	Set a trachyte 12x12x6 ins. 8 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face. and raise mound of stones 2 ft. base $\frac{1}{2}$ ft. high W. of cor. Pits impracticable.
58.00	South end of same ridge. bears. S-E.
83.50	The cor. of secs 2. 3. 10 and 11 Land broken Soil rocky - 4 th rate. Timber. scattering cedars and pines. Mountainous land 83.50 chs.

October 18 1877

From the cor. of secs. 3. 4. 33 and 34. on S.
bdg. of T.P. as heretofore described
Thence I run

No° 02' W bet. secs. 33 and 34

Over flat.

40.00	Set a trachyte 12x8x8 ins. 8 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face. and raise a mound of stones 2 ft. base $\frac{1}{2}$ high W. of cor. Pits impracticable
41.00	Dry wash 20 lbs. wide 3 ft. deep. comes W.
74.00	Dry wash 20 lbs. wide 3 ft. deep. comes W.
80.00	Set a trachyte 12x12x5 ins. 8 ins in the ground for cor. of secs. 27. 28. 33 and 34 marked with 1 notch on S and 3 notches on E. edges and raises a mound of stones 2 ft. base $\frac{1}{2}$ ft. high W. of cor. Pits impracticable.

Land flat.

Soil rocky and gravelly 3rd rate
no timber

Subdivision of T. 28 S. R. 2 $\frac{1}{2}$ W. Continued

	October 19, 1897. At 8 h 20 m A. M. by G. M. T. I set off 38° 21' on the lat. arc. 10° 12' on the decl. arc and determined a true meridian with the solar at the cor. of secs. 27. 28. 33 and 34.
Then I run.	
East on a random line bet. secs. 27 & 34	
40.00 Set temp $\frac{1}{4}$ sec. cor.	
80.04 Intersect N. and S. line at the cor. of secs.	
26. 27. 33 and 35.	
Then I run	
Ghost on a true line bet. secs 27 and 34	
Descent 200 ft.	
11.00 Raving comes N. W. ascen 125 ft.	
25.00 Top of ridge bears N. W and S.E. descend 2	
40.02 Set a lava stone 10x12x6 ins. 10 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face and raise a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high N. of cor. Pits impracticable	
65.00 Base of high ridge. Enter flat. descent gradually	
80.04 The cor. of secs. 27. 28. 33 and 34	
(5.5) (5.5) Land broken & flat. Soil rocky - 4 th rate No timber.	
mountainous land 65.00 chs.	
	N 0° 02' W bet. secs. 27 and 28
	Ascen gradually over flat.
12.00 Descent gradually.	
37.00 Ditch 2 ins wide flows S. W.	
38.00 Road bears N. E and S. W.	
40.00 Set a trachyte 14x6x6 ins. 10 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face and raise a mound of stone 2 ft. base. 1 $\frac{1}{2}$ ft high W. of cor. Pits impracticable log cabin S. 82° 05' W. about 15 chs.	
	Descent gradually
80.00 Set a red trachyte 16x12x8 ins 11 ins in the ground for cor. of secs. 21. 22. 27 and 28.	

Sub-division of T. 28 S. R. 2½ W. Continued

acres

marked with 2 notches on S. and 3 notches on E. edges, and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable.

Sand Rollins.

Soil rocky and gravelly 3rd rate
no timber.

East on a random line bet. sec. 22 and 27.
Set traps $\frac{1}{4}$ sec. cor.

80.06 Intersect N. and S. line at cor. of secs
22, 23, 26 and 27

Thence I run

West on a true line bet. sec. 22 and 27.

Through scattering cedars and pines, descend
south point of ridge, bears S.

Footh of mountain leaves cedars and pines.

3.00 Road bears N.W. and S.E.

40.03 Set a trachyte 14 x 10 x 6 ins. 10 ins in the
ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N.
face, and raises a mound of stone 2 ft.
base $1\frac{1}{2}$ ft. high N. of cor. Pits im-
practicable.

80.06 The cor. of secs 21, 22, 27 and 28.

~~26.00~~ Sand broken & flat.

~~54.00~~ Soil rocky. 4 $\frac{1}{2}$ rate

Scattered cedars and pines,
mountainous land 26.00 chs.

N $0^{\circ} 02' W.$ bet. secs. 21 and 22.

Descending gradually in dense sage.

20.50 Leaving bench descending 100 ft.

27.00 Enter bottom.

30.45 Road bears E.N.W.

31.00 Dry creek bed.

34.65 Ditch 5 ft. wide 6 ins deep, comes W. $8\frac{1}{2}$ %

40.00 Set a granite 18 x 12 x 10 ins. 12 ins. in
the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on

Subdivision of T. 28 S. R. 2 $\frac{1}{2}$ W. Continued

W. faces. and raise a mound of stone
2 ft. base $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable.

Enter bench. leaving sage brush.

63.00 Road bears N. W. and S. E.

80.00 Set a granite 18x10x8 ins. 12 ins in the
ground for cor. of secs 15, 16, 21 and 22
marked

28 S. on N.E.

$2\frac{1}{2}$ W on S.E. faces. with 3 notches on
S. and E. edges. and raise a mound of
stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
Pits impracticable.

Sand broken & flat

Soil rocky - 4^{th} rate.

No timber - dense sage brush 40.00 chs

October 19, 1897. I set off. $10^{\circ} 17.5'$ on the
decl. side. and at 12 m. l. m. t. observe
the sun on the meridian: the resultin
lat. is $38^{\circ} 23.4'$ at the cor. of secs 15, 16, 21 and 22
Then I run.

East on a random line bet. secs. 15 and 22

40.00 Set temp $\frac{1}{4}$ deg. cor.

80.04 Intersect N. and S. line at the cor. of secs
14, 15, 22 and 23.

Then I run

West on a true line bet. secs 15 and 22.

Ascending over ledges and boulders through
scattering cedars and pines.

28.00 Top of rocky ridge bears N. E. S. descending

40.08 Set a granite 18x12x7 ins. 12 ins. in the
ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N.
faces and raise a mound of stones 2 ft.
base $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable

Foot of mountain. descending over bench

the cor. of secs. 15, 16, 21 and 22.

Sand broken & flat.

Soil rocky 4^{th} rate.

Subdivision of T. 28 S. R. 2 1/2 W. Continued

ans

Timber scattering cedars and pine
mountainous land \$8.00 acs.

No ° 02 W. bet. sec. 15 and 16

Decend over bench through dense sage

\$40.00 Set a granite 16 x 14 x 8 ins. 11 ins in the
ground for 1/4 sec. cor. marked 1/4 on W.
face. and raise a mound of stone 2 ft.
high 1/2 ft. high W. of cor. Pits impen-
etrable.

- 80.00 Set a granite 16 x 8 x 8 ins. 11 ins in the
ground for cor. of sect 9. 10. 15 and 16
marked with 4 notches on S. and 3 notches
on E. edges. and raise a mound of
stone 2 ft. high 1/2 ft. high W. of cor.
Pits impenetrable.

Bare rolling.

Soil rocky 4th rate

No timber. Dense sage brush \$8.00 acs

Each on a random line bet. sec. 10 and 15

90.00 Set temp 1/4 sec. cor.

80.00 Intersect N. and S. line at the cor. of
acs. 10. 11. 14 and 15
Thence down.

Right on a line line bet. sect. 10 and 15

Decend through scattering cedars and pines
Top of ridge bears N. C and S. W. Decending
brush comes S. W. second

39.60 S. point of ridge bears N. C and S. W.

40.00 Set a basaltite 16 x 8 x 4 ins. 11 ins. in the
ground for 1/4 sec. cor. marked 1/4 on W.
face. from which.

A cedar 10 ins. diam. bears N. 90° 40' E 27 lbs
dist. marked 1/4 S. 10 B. T.

A sprig 6 ins. diam. bears S. 2° 10' E 25 lbs.
dist. marked 1/4 S. 15 B. T.

48.25 Top of rocky ledges bear N. and S. side of

Subdivision of T. 28 S. R. 2 $\frac{1}{2}$ W. continued

chains 63.00 72.00 78.00 80.00 $\frac{1}{2} \times \frac{1}{2}$	canon coney S. W. Ascend 300 ft. S. point of ridge bears N. E. 2 $\frac{1}{2}$ S. W. declivity foot of steep mountain, declivity over bench the cor. of sec. 9. 10. 15 and 16 bank broken. Soil rocky 4 $\frac{1}{2}$ rate timber scattering cedars and pines. mountainous land 78.00 chs.
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N. 0° 02' W. bet. secs 9 and 10. Ascend over bench Enter scattering cedars and pines. Foot steep mountain Set a granite 16 x 14 x 7 ins. 11 ins. in the ground for 1 $\frac{1}{4}$ sq. cor. marked $\frac{1}{4}$ on W. face. and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. Pits imperceptible Tulch 150 ft. deep canon S. W. ascend Top of rocky point 400 ft. high. bears E. N. W. Set a granite 16 x 14 x 6 ins. 11 ins. in the ground for cor. of sec. 3. 4. 9 and 10 marked with 5 notches on S. and 3 notches on E. edges. and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. Pits imperceptible A cedar 8 ins. diam. bears S. 9° 40' W. 50 lbs. dict. marked T. 28 S. R. 2 $\frac{1}{2}$ W. S. 9 B. T. No other bearing trees within limits. Bank broken Soil rocky - 4 $\frac{1}{2}$ rate Timber scattering cedars and pines. mountainous land 52.00 chs.

East on a random line bet. sec 9 and 10 Set temp. $\frac{1}{4}$ sec. cor. 80.00 Intersect N. and S. lines 10 lbs. N. of cor. of secs. 2. 3. 10 and 11 Thereof I am N. 89° 56' W. on a tang line bet. secs 9 and 10

Subdivision of T. 28 S. R 2 1/2 W. continued.

mins
 22.00 Descend over broken country
 Ravine. comes N. ascend
 40.00 Set a blacklyte 18x12x4 ins. 12 ins. in the ground
 for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face and raise a
 mound of stone 2 ft. high 1 ft. high N. of cor.
 Pits impracticable
 50.00 Cross ridge 50 ft. high. bears N. and S. enter scatter
 ing cedars and firs. descend
 The cor. of secs. 3, 4, 9 and 10
 80.00 S and broken.
 Soil rocky - 4 th. rate
 Limber scattering cedars and firs.
 Mountainous land 80.00 chs.

No° 02 W on a random line bet. secs. 3 and 4
 40.00 Set temp $\frac{1}{4}$ sec. cor.
 83.57 Interest N. bdy. of T. 7 lbs. W. of cor. of sec. 3, 4, 33
 and 34 as heretofore described.
 Shallow stream
 50° 01' W on a tiny line bet. secs 3 and 4
 Descend in scattering cedars and firs.
 Creek comes N. W. ascend soft.
 10.50 Top of ridge. bears E. and W. descend.
 15.50 Enter dry lake bed. about 5 acres.
 25.00 Heavy dry lake bed. thence over broken country
 43.57 Set a granitic 16x12x6 ins. 11 ins. in the ground
 for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face. from which:
 a cedar 5 ins. diam. bears $N 48^{\circ} E$ 63 chs. dist.
 marked $\frac{1}{4}$ S. 4 B.T.
 A cedar 6 ins. diam. bears $N 17^{\circ} W$. 20 chs. dist.
 marked $\frac{1}{4}$ S. 4 B.T.
 73.50 Cross ridge bears S.E. and N. W. descend
 78.00 Gulch 50 ft. deep. opening in bottom comes W.
 81.14 Creek 2 chs wide 2 ins. deep comes W. ascend
 The cor. of secs. 3, 4, 9 and 10
 S and broken
 Soil rocky - 4 th. rate
 Limber scattering cedars and firs.
 Mountainous land 83.54 chs.

October 1 /

Subdivision of T. 28 S. R 2 $\frac{1}{2}$ W. Continued

135	<p><u>Chains</u></p> <p>October 20, 1897, at 8 h. 25 m. A. M. L. M. I set $38^{\circ}20'$ on the lat. acc. $10^{\circ}34'S.$ on the decl. acc and determine a true meridian with the solar at the cor. secs. 45, 32 and 33, on S. bdy. of Tp. as heretofore described. Thence I run.</p> <p>$10^{\circ}03'W$ bet. secs 32 and 33</p> <p>One flat.</p> <p>40.00 Set a trachyte $15 \times 9 \times 4$ ins. 10 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face and raises a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable</p> <p>57.00 Dry wash 20 lbs. wide 3 ft. deep comes W.</p> <p>78.24 Irrigation ditch 2 lbs wide 4 ins deep comes N. W.</p> <p>80.00 Set a trachyte $16 \times 9 \times 8$ ins. 11 ins in the ground for cor. of secs 28, 29, 32 and 33, marked with 1 notch on S. and 4 notches on E. edges and raises a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable. A log cabin bears $N 59^{\circ}53'E$ Land flat.</p> <p>Soil rocky and gravelly - 3rd rate No timber.</p>
136	<p>East on a random line bet. secs. 28 and 33</p> <p>40.00 Set temp. $\frac{1}{4}$ sec. cor.</p> <p>80.00 Intersect N. and S. line at the cor. of secs. 27, 28, 33 and 34 Thence I run</p> <p>West on a true line bet. secs. 28 and 33. descending gradually.</p> <p>30.30 Irrigation ditch 3 lbs wide 2 ins. deep comes S. W.</p> <p>40.00 Set a trachyte $14 \times 10 \times 9$ ins. 10 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face and raises a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable</p> <p>80.00 The cor. of secs 28, 29, 32 and 33. Land flat.</p> <p>Soil rocky and gravelly - 3rd rate No timber</p>
137	<p>West on a random line bet. secs. 29 and 32</p> <p>27.42 Intersect W. bdy. of Tp. at the cor. of secs 25, 29, 32 and 36 as heretofore described. Thence I run.</p>

Subdivision of T. 28 S. R 2½ W continued.

- East on a true line bet. secs. 29 and 30.
 17.10 Roof beam N. and S.
 21.78 Irrigation ditch 3 ft. wide 2 ins. deep comes N.
 27.42 The cor. of secs. 28, 29, 30 and 31
 Sand flat.
 Soil rocky and gravelly, ~~and~~ rate
 no timber.

138	<p>No ° 03' W bet. secs. 28 and 29 Over beach</p> <p>40.00 Set a lava stone 10 x 10 x 8 ins. 11 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high N. of cor. Pits impracticable.</p> <p>48.00 Roof beams S. W. and N. E.</p> <p>65.95 Ditch 3 ft. wide 3 ins. deep comes S. W.</p> <p>80.00 Set a granite 10 x 10 x 8 ins. 11 ins. in the ground for cor. of secs. 20, 21, 28 and 29. marked with x on S. and S. notches on E. edges. and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high N. of cor. Pits imprac- tical rolling Soil rocky and gravelly - and rate no timber.</p> <p>October 20. At this cor. I set off. $10^{\circ}38'5''$ on decl. sec. and at 12 m. l.m.t. above the sun on the meridian! The resulting lat. is $38^{\circ}22'1''$</p>
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139	<p>East on a random line bet. secs. 21 and 28</p> <p>40.00 Set temp $\frac{1}{4}$ sec. cor.</p> <p>80.02 Intersect N. and S. line at cor. of secs. 21, 22, 27 and 28</p> <p>Thence I run</p> <p>West on a true line bet. secs. 21 and 28</p> <p>80.00 Beaching gradually</p> <p>80.00 Beaching 50 ft.</p> <p>33.00 Enter bottom comes N. E. and S. W.</p> <p>40.01 Set a trachyte 12 x 10 x 9 ins. 8 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face and raise mound of stone 2 ft. base $\frac{1}{2}$ ft. high N. of cor. Pits impracticable.</p>
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Subdivision of T. 28 S. R 2 1/2 W. continued

42.20	Ditch 1 ft. wide 2 ins. deep comes S.W.
61.28	Dry wash comes N.W.
62.13	Road bears N. and S.
71.60	Beav bottom ascend 50 ft.
73.00	Enter bench
80.02	The cor. of secs. 20. 21. 28 and 29 Bank broken Soil rocky and gravelly - 3 rd rate. No timber
 ¹⁰	
27.28	West on a random line bet. secs 20 and 29 Intersect W. bank of Tp at the cor. of secs. 20. 24, 25 and 29 as heretofore described. Hence I run East on a true line bet. secs. 20 and 29 Over bench
27.28	The cor. of secs 20. 21. 28 and 29 Bank broken Soil rocky and gravelly . 3 rd rate No timber Mountainous land 27. 28 chs.
 ¹¹	
2.70	No° 08' W. bet. secs. 20 and 21 Over bench Descent 50 ft.
3.60	Enter bottom comes W.
5.45	Dry bed of creek comes W
8.20	Beav bottom ascend 80 ft.
12.20	Enter bench
20.90	Road bears N. W and S.E
40.00	Set a sandstone 16x10x8 ins 11 ins in the ground For 1/4 sec. cor. marked 1/4 on W. face and raise a mound of stone 2 ft. by 1 ft. high W. of cor. Pits impracticable
70.85	Road bears N. W and S.E.
80.00	Set a trachyte 18x10x8 ins 12 ins in the ground for cor. of secs 16. 17. 20 and 21 marked with 3 notches on S. and 4 notches on E. edges, and raise a mound of stone

Subdivision of T. 28 S. R. 2 1/2 W. continued

2 ft. bas. 1 1/2 ft. high W. of cor. Pits imp
practicable
Sand broken
Soil rocky and gravelly 3rd rate
no timber.

✓ 8.1

- East on a random line bet. sec. 16 and 21
Set temp. 1/2 sec. cor.
Intersect N. and S. line 5 1/2 ft. N. of cor. of
secs 15-16, 21 and 22
Thence 3 mm
 $N 89^{\circ} 58' W$ on a long line bet. sec. 16 and 21
Descending over bench
Road bears N. W. and S. E.
At a granite 16 x 10 x 6 ins. 11 ins in the
ground for 1/2 sec. cor. marked 1/2 on N.
face. and raise a mound of stones 2 ft.
base 1 1/2 ft. high N. of cor. Pits imprac-
ticable.
Road bears N. W. and S. E.
The cor. of sec. 16, 17, 20 and 21
Sand rolling.
Soil rocky and gravelly 3rd rate
no timber

✓ 3

- West on a random line bet. secs. 17 and 20
Intersect W. side of 7 ft. 4 ins. N. of cor. of
secs 15, 17, 20 and 24 as heretofore described
Thence 3 mm
 $N 89^{\circ} 55' E.$ on a long line bet. secs. 17 and 20.
Over bench.
Road bears N. W. and S. E.
The cor. of sec. 16, 17, 20 and 21
Sand rolling.
Soil rocky and gravelly 3rd rate
no timber.

Subdivision of T. 28 S. R 2 $\frac{1}{2}$ W. continued

ctd. at 8 a.m. a.m.t. Set off 38' E. on the lat. line 10° 55' S.
the decl. line and determine a true meridian with the solar at
cor. of sec. 16, 17, 20 and 21
Thence I run

N 0° 03' W bet. secs. 16 and 17

Over bench.

- 6.00 Road bears N. W. and S.E.
 25.65 Dry wash 12 lbs. wide 3 ft deep comes W.
 38.70 Road bears N.W. and S.E.
 40.00 Set a trachyte 16 x 10 x 6 ins. 11 ins. in the
 ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W.
 and raise a mound of stone 2 ft base 1 $\frac{1}{2}$ ft
 high W. of cor. Pits impracticable.
 44.22 Road bears E. and W.
 50.10Leave bench. Ascend mountain.
 66.50 Top of ridge bears N.E. and S.W. Enter
 scattering cedars and pines. Ascend
 70.10 Gulch comes S.W. ascend 150 ft.
 80.00 Ridge. bears W. W and S. E. Set a trachyte
^{29.90}
^{51.11} 18 x 14 x 8 ins. 12 ins in the ground for cor.
 of secs 8, 9, 16 and 17. marked with 4
 notches on S. and E. edges and raise a
 mound of stone 2 ft base 1 $\frac{1}{2}$ ft high W.
 of cor. Pits impracticable.
 Bend broken & rolling.
 Soil rocky - 4th rate.
 Timber scattering cedars and pines
 Mountainous land 29.90 elev.

D.W.

- 589° 58' E on a random line bet. secs. 9 and 16
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.12 Intersect N and S. line 4 lbs. S. of the cor. sec.
 9, 10, 15 and 16
 Thence I run.
 Thist on a true line bet. secs. 9 and 16.
 Ascend over bench in dense sage brush.
 40.00 Set a granite 16 x 12 x 6 ins - 11 ins. in the
 ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N.
 face. and raise a mound of stone 2 ft.
 base 1 $\frac{1}{2}$ ft. high. W. of cor. Pits imprac-
 ticable.
 41.25 Road bears N.E. and S.W. in gulch comes S.
 Ascend through scattering cedars and pines

Subdivision of T. 28 S. R. 2 1/2 W. continued:

- chain
 44.50 Top of ridge bears N. E. and S. W. descending 100 ft.
 71.00 Gulch comes S. W. ascend 100 ft.
 80.12 Th. cor. of secs. 8. 9. 16 and 17.
~~388~~
~~35~~
~~41~~
 Land broken
 Soil rocky - 4th rate
 Limber scattering cedars and pines
 Mountainous land 38.87 chs.

7

589°55' W. on a random line bet. secs. 8 and 17

- 27.15 Intersect. W. bdy. of Th. Th. Lne. S. of cor. of
 secs. 8. 12. 13 and 17 as heretofore described
 Then, I run

N 89°58' E on a tiny line bet. secs. 8 and 17
 descending 30 ft. through scattering cedars and f.

- 3.50 Bottom of Gulch bears S. W. ascend

- 27.15 Th. cor. of secs. 8. 9. 16 and 17.
 Land broken

Soil rocky 4th rate

Limber - scattering cedars and pines.
 Mountainous land 27.15 chs.

N 0° 03' W bet. secs 8 and 9.

Through scattering cedars and pines, descend 60 ft.

- 6.60 Gulch comes N. W. then over uneven
 ground.

- 40.00 Set a granite 16x12x12 ins. 11 ins in
 the ground for $\frac{1}{4}$ ac. cor. marked $\frac{1}{4}$ on
 W. face. and raise a mound of stones 2 ft.
 but $\frac{1}{2}$ ft. high W. of cor. Pits impracticable

- 42.40 Gulch 100 ft deep comes S. W. ascend

- 52.20 Top of ridge bears E. and W. descend

- 55.20 Road bears N. W. and S. E.

- 66.00 Creek 2 lks. wide. 2 in deep in canyon comes W.
 ascend

- 80.00 Set a flint rock 16x18x5 ins. 11 ins in
 the ground for cor. of secs. 4. 5. 8 and 9.
 marked with 5 notches on S. and 4 notches
 on E. edge; from which.

A pine 18 ins. diam. bears N 46° 50' E 22 lks.

Subdivision of T. 28 S. R. 2 $\frac{1}{2}$ W. continued

Chains

- dist. marked T. 28 S. R. 2 $\frac{1}{2}$ W. S. 4 B.T.
 A fine 15 ins. diam. bears S. 20° 15' E. 79 lbs.
 dist. marked T. 28 S. R. 2 $\frac{1}{2}$ W. S. 9 B.T.
 A cedar 6 ins. diam. bears S. 12° 30' W. 23 lbs.
 dist. marked T. 28 S. R. 2 $\frac{1}{2}$ W. S. 8 B.T.
 A fine 12 ins. diam. bears N. 80° 10' W. 42 lbs.
 dist. marked T. 28 S. R. 2 $\frac{1}{2}$ W. S. 5 B.T.
 Sand broken
 Soil rocky - 4 $\frac{1}{2}$ rate.
 Limber scattering cedars and fines.
 Mountainous land 80.00 lbs.
 October 21. At this cor. I set off 11° 00' S.
 the def. arc. and at 12 m. l. m. t. absent
 the sun on the meridian; the resulting
 lat. is 38° 2 $\frac{1}{2}$ ' N
-

- East on a random line bet secs 4 and 9.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.10 Intersect N and S. line at the cor. of secs.
 3. 4. 9 and 10.
 Hence I run.
 West on a true line bet. secs. 4 and 9.
 Through scattering cedars and fines, descend
 5.35 Road bears N and S. in gulch comes S. ascend.
 26.00 Top of ridge bears N. and S. descend
 36.50 Creek 2 lbs. wide 1 in deep in ravine comes S
 ascend.
 40.05 Set a trachyte 18 x 10 x 8 ins. 10 ins in the
 ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N.
 face. from which.
 a fine 12 ins diam. bears N. 83° E. 95 lbs.
 dist. marked $\frac{1}{4}$ S. 4 B.T.
 A cedar 5 ins. diam. bears S. 56° 10' W. 27 lbs.
 dist. marked $\frac{1}{4}$ S. 9 B.T.
 42.10 Top of ridge. bears N. and S. descend
 50.95 Gulch comes S.E. ascend
 59.90 Top of ridge bears N. and S. descend
 69.00 Gulch 100 ft. deep. comes S.
 73.00 Top of ridge bears N. and S. descend
 - 80.10 The cor. of secs 4. 5. 8 and 9

Subdivision of T. 28 S. R. 2 $\frac{1}{2}$ W. Continued.

chains

Sand broken

Soil rocky - 4th rate.

Timber - scattering cedars and pines.

Mountainous land 80,00 chs.

✓
S 87° 58' W. on a random line bet. sec. 5 and 8

27.40 Intersect N. bdy. of Twp. 1 $\frac{1}{2}$ lks. S. of cor. of secs.
1.5. 8 and 12. as heretofore described.

Thence I run

East on a true line bet. secs. 5 and 8.

Through scattering cedars and pines

27.40 The cor. of secs. 4. 5. 8 and 9

Sand broken

Soil rocky - 4th rate.

Timber - scattering cedars and pines

Mountainous land 27.40 chs.

N 0° 03' W on a random line bet. secs 4 and 5

40.00 Set temp $\frac{1}{4}$ sec. cor.

83.45 Intersect N. bdy. of Twp. 7 lks. W. of cor.
secs. 4. 5. 32 and 33. as heretofore
described.

Thence I run.

South on a true line bet. secs. 4 and 5.

Descending in scattering cedars and pines

1.25 Head of ravine comes N.E.

20.00 Road bears N.E. and S.W.

43.45 Set a sandstone 18x10x6 ins. 1.2 ins. in the
ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face
and raise a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft.
high W. of cor. Bits impracticable

65.50 Cross ridge bears N.E. and S. W. descending

83.45 The cor. of secs. 4. 5. 8 and 9.

Sand broken

Soil rocky

Timber - scattering cedars and pines

Mountainous land 83.45 chs.

October 21 1897

Subdivision of T. 28. S. R. 5 to N.

General Description.

The land embraced in our survey in this township is rolling flat. It high mountains the flat is rocky & gravelly and could be used for agriculture but there is no water for irrigation. There is a small stream in Gibadore also in Dry canons but sinks during the summer months before reaching the valley.

The north eastern part of the township is exceedingly rough. Dry Canons having cut its way through sandstone to a depth of from 1000 ft. to 1500 ft. making it impossible to survey.

The mountains are covered with scattering Cedars & pines. and scattering groves of aspen. There is no animal found in the township. There is a log cabin in the S.E. of Sec. 28. claimed by Ward P. Thompson. D.E. 4076.

There are no other improvements in the township. H. G. Lisonbee D.E. 3074. has no improvements that could be found, and has been abandoned. An irrigation ditch from Dry Canon also one from Gibadore Canon run to Sec. 36. T. 28. S. R. 5. N. Trough E. Lisonbee D.E. 3074. of Ward P. Thompson D.E. 4076. claimed to be located in T 28 S. R. 5. N.

John J. Breckon
Horner McCarty
M. J. Deputy Surveyor,

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by

, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of

showing the respective capacities in which they acted:

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted

, United States Deputy Surveyor, in surveying all those parts or portions of the

..... of the

..... meridian, of which are represented

in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

Subscribed and sworn to before me this

}

day of, 189



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, United States Deputy Surveyor,
solemnly swear that, in pursuance of a contract received from
United States Surveyor General for bearing date of t
..... day of 189 , I have well, faithfully, and truly, in my o
proper person, and in strict conformity with the instructions furnished by the United States Surve
General for the Manual of Surveying Instructions, and the laws of
United States, surveyed all those parts or portions of

..... of the
..... meridian, in the of which are represented in
foregoing field notes as having been surveyed by me, and under my direction; and I do further solemn
swear that all the corners of said survey have been established and perpetuated in strict accordance w
the Manual of Surveying Instructions, and the special written instructions of the United States Surve
General for and in the specific manner described in the field notes, and t
the foregoing are the original field notes of such survey; and should any fraud be detected, I will su
the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor

Subscribed by said and sworn to before me }
this day of 189 }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

John T. Peck, Jr. & James M. Clancy, March 13, 189
*The foregoings field notes of the survey of the subdivision of Terrell's
School Range 2 1/2 West of the Salt Creek Range & Hoselton
Dak.*

executed by *John T. Peck, Jr. & James M. Clancy*,
under contract No. 205, dated Oct. 20, 189 , having b
critically examined, and the necessary corrections and explanations made, the said field notes, and
surveys they describe, are hereby approved.

Jacob B. T. B.
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in

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BOOK A-250

N.S.R.

FIELD NOTES

OF THE SURVEY OF

W.M. Berry Survey of L. & W. S. R.R.Of the W.M. Berry Meridian,W.M. Berry

AS SURVEYED BY

W.M. Berry United States Deputy Surveyor
under his Contract No. 208, dated October 20th, 1896Survey commenced October 21st, 1896Survey completed October 22nd, 1896

e-161

W-Berry(hgt) 3-00-00 ✓
W- " " (ht) 1-00-42 ✓

Conty W-Berry - 2-01-51 ✓

Names and Duties of Resists.

Alex. Morrison Chairman

C. H. Morrison Chairman

Thomas Bates Alexander Moundman

For preliminary affidavits see book B

BOOK A-250

INDEX DIAGRAM.

Township 29 N, Range 26 E

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31	32	33	34	35	36

Meanders Page.....

Preliminary Oaths of Assistants.

We, _____ and _____
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the
chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that
we will report the true distances to all notable objects, and the true lengths of all lines that we assist in
measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey

_____, Chainman

_____, Chainman

Subscribed and sworn to before me this _____ }
day of _____, 189 }
 189 }

oooooo
O SEAL O
oooooo

We, _____ and _____
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment
corners, according to the instructions given us, to the best of our skill and ability, in the survey of _____

_____, Moundman

_____, Moundman

Subscribed and sworn to before me this _____ }
day of _____, 189 }
 189 }

oooooo
O SEAL O
oooooo

We, _____ and _____
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corner
and other duties, according to instructions given us, to the best of our skill and ability, in the survey

_____, Axmen

_____, Axmen

Subscribed and sworn to before me this _____ }
day of _____, 189 }
 189 }

oooooo
O SEAL O
oooooo

I, _____, do solemnly swear that I will well and truly
perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the
survey of _____

_____, Flagman

Subscribed and sworn to before me this _____ }
day of _____, 189 }
 189 }

oooooo
O SEAL O
oooooo

West Boundary of C. & G. P. S. S.

Survey commenced October 21st 1877 and executed with a Gurley Mountain transit with solar attachment.

I examine the adjustments of the transit and correct the level and collimation errors; then to test the solar apparatus, by comparing its indications, resulting from solar observations made during A. M. P. M. time, with a true meridian determined by observation on Polaris, I proceed as follows;

At the Cor. to Secs 7, 12, 15 & 18. on N. side of Gp. which is a quartzite 50x20x20 ft. above ground, marked and witnessed as described by the Surveyor General. Latitude $38^{\circ} 23' N.$ Longitude $112^{\circ} 17' W.$ I set off $38^{\circ} 23'$ from the Lat. arc; $11^{\circ} 02' E.$ on the decl. arc; and at $4^{\circ} 05' P. M.$ L. m. t. determine with the solar a true meridian, and mark a point thereof on a stone firmly set in the ground 5. chs N. of the Cor.

At 11th 24^m P. M. I observe Polaris at Upper Culmination. In accordance with Manual of Instructions, and mark a point in the true meridian thus determined, by cutting a small groove in the stone already set 5. chs. N. of my station. This mark is just 0.4 m. east of the meridian determined by the solar.

October 21 " 1877

At 7th 56^m A. M. L. m. t. I set off $38^{\circ} 25'$ on the lat. arc; $11^{\circ} 17' E.$ on the decl. arc; and mark a point in the true meridian determined with the solar. By a cross on the stone already set 5. chs. N. of my station, this mark falls 0.4 m. east of the true meridian established by the Polaris observation.

The solar apparatus by P. M. L. m. observations defines positions for true meridians respectively about $0^{\circ} 21' E.$ and $0^{\circ} 21'$ east of the meridian established by the Polaris observations; therefore I conclude

West Boundary of C. 28. S. 19. 3 M. Cont.

Diam. that the adjustments of the instrument are
satisfactory.
The magnetic bearing of the true meridian
at 8° 50' = a. m. is N. 16° 00' W. The angle
thus determined, reduced by the table page
100 gives the mean May. decl. 15° 57' E.

October 22nd 1897

From the course already described I run
South on a random line between R. 5 & 3 E. 1/4 N.
at 4 miles 42 obs. intersect 21 obs. N. of
Cor. to obs. 28 E 27 S. R. 6 3 E 4 W. as heretofore
described.

Then I run

N. 0° 02' W. in a line line bet. sec. 31 & 36.

Enter scattering cedars. Ascend.

8.00 Gulch 300 ft. below th. Cor. course N. W. ascend
16.00 Point of ridge. fall N. W. descend 600 ft. to
Ten Mile Creek 5 lbs. water 5-mo. deep flows E.
Ascend

32.52 Canon road. bears E. 3/4 N.

40.00 Cut a sandstone 14 x 10 x 5 min. 10 min. on the
ground for 1/4 sec. cor. marked 1/4 on N. face, from which
A pine 12 min. in diam. bears N. 34° W. 68 lbs.
dist. marked 1/4 S. B. T.
A pine 12 min. in diam. bears N. 75° E. 67 lbs.
dist. marked 1/4 S. B. T.

47.50 Point of ridge. bears S. E. descend.

51.00 Gulch 75 ft. deep. course S. E. ascend.

53.70 Point of ridge. bears S. E. descend.

Ravine. course S. E. ascend.

68.40 A pine tree 16 min. in diam. for Cor. to sec.
25. 30. 31. E. 36. I marked

T. 28. S. S. 30. on N. E.

R. 3. W. 5. 31. on S. E.

S. 36. on S. W. end

R. 4. W. 5. 25. on W. W. sides with 1 notch
on S. 3/4 notches on N. sides.

This tree stands on rocky slope sloping N.
impossible to make full or round
as other bearing trees within limits.

Land broken

First boundary of U. S. A. R. 3. N. continued

Chains

	Soil. Rocky. 4 th val.
	Scattered cedar & pine.
	Mountainous land 80 chains.
	October 22 nd 1897
10.00	No° 02 W. bel. Seco 26 1/30. on a true line.
18.40	Enter scattering cedar & pine, ascend 200 ft.
22.60	Ridge. bears N. W. & E. descend 100 ft. to
26.00	Canyon, coarse S. E. ascend
30.00	Set a limestone 16 x 10 x 8 ins. 11 ins. in the ground for 1/4 sec. Con. marked 1/4 on N. face, from which
34.00	A pine 7 ins. in diam. bears S. E. 30 ft. dist. marked 1/4 S. E. T.
38.00	A pine 10 ins. in diam. bears S. E. 70 ft. dist. marked 1/4 S. E. T.
44.00	Ridge 800 ft. high. bears E. N. W. bears timber, descend,
51.50	Enter timber.
60.80	Canyon, coarse S. E. ascend 400 ft. to
59.50	Point of ridge. bears S. E. descend soft;
72.50	Gulch. coarse S. E. ascend 200 ft. to
80.00	Set a Quartzite 18 x 12 x 6 ins. 12 ins. in the ground for con. to Seco 19. 24. 25. 31/30. marked 2 molches on S. E. 4 molches on N. edge, from which 2 pines 10 ins. in diam. bears N. E. 25° S. 30° E. dist. marked 1. 28. 5. 16. 3. N. E. 1/2. 10. T.
84.00	2 pines 10 ins. in diam. bears S. E. 35° S. 52° E. dist. marked 1. 28. 5. 16. 3. N. E. 1/2. 10. T.
90.00	A pine 10 ins. in diam. bears S. E. 77° N. 77° E. dist. marked 1. 28. 5. 16. 4. N. 5. 26. 10. T.
100.00	A mahogany 12 ins. in diam. bears N. E. 77° 20' 10. ft. dist. marked T. 28. 5. 16. 4. N. 5. 26. 10. T.
	Land. broken.
	Soil. Rocky. 4 th val.
	Timber. Cedar & pine. Mountainous land 80 chs.
	Oct. 23. 1897. at this cor. at 9 h. 15 m. P. M. I set off 38. 22 m. due lat. plus 11. 57 ft. in the declination and determined a true meridian with the solar No° 02 W. bel. Seco 19 1/24. on a true line.
	Enter scattering cedar, pine & mahogany.
	Ascend about 600 ft. to
124.00	Top of ridge. bears N. W. & S. E. descend S. slope.

West Boundary of C. 28. S. 7. E. 1/4. Continued.

Chains 40.00	Set a Quartzite 14 x 10 x 6 in. 19 in. in the ground for 1/4 sec. Cor. marked 1/4 on N. faces and rounded around of stony soft base 1/2 ft. high. W. of Cor. Pipe impracticable.
61.80	Mountains of various 1000 ft. below top of ridges. course N. E. ascend 80 ft. to
68.80	Point of ridge. bears N. E. descend 200 ft. to
80.00	Foot of mountain. bears N. W. 1/4 S. E. Set a Quartzite 26 x 14 x 6 in. 19 in. in the ground for cor. to Secs 13. 18. 19 & 24. marked 3 matches on N. & E. edges; from vehicle
	A cedar 8 in. in diam. bears N. 20° 10' E. 50 ft. dist; marked T. 28. S. R. 3. 18. 19. 13. T.
	A pine 8 in. in diam. bears N. 71° 20' E. 40 ft. dist; marked T. 28. S. R. 3. 18. 19. 13. T.
	A cedar 10 in. in diam. bears N. 0° 77' 53" E. 50 ft. dist; marked T. 28. S. R. 3. 18. 19. 13. T.
	A pine 12 in. in diam. bears N. 50° W. 100 ft. dist; marked T. 28. S. R. 3. 18. 19. 13. T.
	Land. Broken.
	Soil. rocky. 4 trials.
	Timber. Scattering Cedar. pine. Mahogany. Mountainous land 80 chs.
40.00	N. 0° 52' E. on a true line bet. dists 13 & 18. Only scattering Cedar 8 ft. in diam. descend gradually over benches.
40.00	Set a Quartzite 16 x 10 x 6 in. 11 in. in the ground for 1/4 sec. Cor. marked 1/4 on N. faces from vehicle
	A cedar 8 in. in diam. bears S. 84° 50' E. 50 ft. dist; marked N. S. B. T.
	A cedar 12 in. in diam. bears S. 0° 20' E. 50 ft. dist; marked N. S. B. T.
44.00	Ascend 80 ft.
45.00	Only bottoms.
52.90	Cottonwood creek 15 ft. wide, 8 in. deep. course N. E.
53.10	Lean bottom, ascend 60 ft.
56.00	Only bench
58.56	Cañon road. bears N. E. 21° 11' 11"

West Boundary of C. 28. S. T. 3. W. Continued.

80.42	The Cor. to Secs 7, 12, 13 & 18. Land, bench & bottom. Soil. Gravelly & rocky & sandy. Timber. Schittering Cedar & pine.
	October 23 rd 1877

Note: For General Description see sub-division of this township.

Boundaries of T. 28. S. T. 3. W.

Latitudes, northings & declinations errors.

Designated true course distance	Latitude		Def.	
	North	South	East	West
North	East - 488.25			488.25
East-boundary South	483.60		483.60	
South-bound West	484.40			484.40
West-bound No: 02' N	320.42	320.42		21
West-bound No: 52' N	80.81	80.80		1.22
West-bound No: 52' N	80.70	80.69		1.22
Convergency			57	
	481.91	483.60	488.82	487.05
		481.90	487.05	
Error in lat. 1.69		1.77 Burndes		

John J. Breckin
Horner McCleary
U. S. Deputy Surveyor

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West boundary of T. 28 S. R. 5. M.

From the cor. to Secs 7, 12, 13 & 1/8. as
hereinbefore described

I run.

North on a running line bet. Secs 7 & 1/2.
The $\frac{1}{4}$ sec. cor. bears West on the dist.

40.40 The cor. to Secs 1, 6, 7 & 1/2. bears West 12°
Dist:

The true course of this line therefore is $W 0^{\circ} 52'$
and the distance 80.81 chs.

40.35 North on a running line bet. Secs 1 & 6.

80.69 The $\frac{1}{4}$ sec. cor. bears West 60 chs dist.

The cor. to Lts 27 & 28 S. R. 5 & 1/4. M.
bears West 12° like dist.

The true course of this line therefore is
 $W 0^{\circ} 52'$ W. and the distance 80.70 chs.

October 25th 1891.

John J. Breckon
Hornell, Mc Keary
M. I. Deputy Surveyor.

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Final Oath of United States Deputy Surveyor.

I, , United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from United States Surveyor General for , bearing date of day of , 189 , I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for , the Manual of Surveying Instructions, and the laws of United States, surveyed all those parts or portions of

..... of the b
and meridian, in the of , which are represented in foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor

Subscribed by said , and sworn to before me this }
..... day of , 189 }



APPROVAL.

Office of the United States Surveyor General,

S. M. McElroy, Plat March 13, 189

The foregoing field notes of the survey of the West Boundary of Township 28 South Range 3 West of the Salt Lake Base Meridian, Utah

executed by *John W. Mackay & Company*,
under his contract No. 208, dated October 20th, 1896, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

J. S. T. R.

United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in has been correctly copied from the original notes on file in this office.

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Exhibit No

4-679.

36.3.13.

BOOK A-250

FIELD NOTES

OF THE SURVEY OF

of the Meridian of 1858. U.S. G.M.

Of the *U.S. G.M.* Meridian,

of the U.S. G.M.

AS SURVEYED BY

John F. Chapman, United States Deputy Surveyor

Under his Contract No. 205, dated October 20th, 1896

Survey commenced October 20th, 1896

Survey completed October 30th, 1896

6-151

*Notes - (Signed) 16-64-73 ✓ 14-¹⁴ 2²
" " 3-03-51 ✓ 14-¹⁴ 2²
Clearings - 18-99 ✓*

Consulting - 8-03-60 ✓

Names and Duties of Assistants.

P. J. Morrison Chairman

C. G. Morrison Chairman

Joyce Morrison Chairman

Chas. Johnson Chairman

Thomas Paisie Chairman

Joseph Johnson Chairman

Preliminary officers see book C

BOOK A-250

INDEX DIAGRAM.

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Meanders Page.....

Preliminary Oaths of Assistants.

WE, and
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

....., Chainman

....., Chainman

Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., Moundman

....., Moundman

Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., Axman

....., Axman

Subscribed and sworn to before me this }
day of , 189 }



I, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., Flagman

Subscribed and sworn to before me this }
day of , 189 }



Subdivision of S. 28. S. P. S. W.

Survey commenced October 22nd 1897 and executed with Gurley Surveyor's transit and Gurley Mountain transit each with solar attachment.

I examined the adjustments of the transits and correct the level and collimation errors; then to test the solar apparatus by comparing its indications resulting from solar observations made during a. m. and p. m. home with a true meridian determined by observations on Polaris. I proceed as follows.

At the cor. of secs. 1, 2, 35 and 36 on S. bdy. of Tp. lat. $38^{\circ}20'N$. long. $112^{\circ}12'W$. I set off. $38^{\circ}20'N$ on the lat. arc. $11^{\circ}23'S$. on the decl. arc. and at 2 h. 32 m. p. m. l. m. t. determine with the solar a true meridian and mark a point thereof on a stone firmly set in the ground 5 chs. N. of the cor.

at 5 h. 20 m. p. m. l. m. t. I observe Polaris at eastern elongation in accordance with Manual of Instructions and mark a point in the line thus determined on a plug driven in the ground 5 chs. N. of my station

October 23rd At 6 h. 00 m. a. m. l. m. t. I lay off the azimuth of Polaris 120° to the west and mark the true meridian thus determined by cutting a small groove in the stone set October 22nd on which the true meridian falls 0.2 in. east of the mark determined by the solar.

At 8 h. 10 m. a. m. l. m. t. I set off $38^{\circ}20'N$ on the lat. arc. $11^{\circ}37'S$ on the decl. arc. and mark a point in the true meridian determined with the solar by a cross on the stone already set 5 chs. N. of my station. This mark falls 0.25 in. east of the true meridian established by the Polaris observation.

The solar apparatus by p. m. and a. m.

Subdivision of T. 28 S. R. 3 W. Continued

chains	<p>observations defines positions for true ians, respectively about $0^{\circ}10'$ west and $0^{\circ}13'$ east of the meridian established by the Palais observations; therefore I conclude that the adjustments of the instrument are satisfactory. The magnetic bearing of the true meridian at 8 h. 35 m A. M. is $N 16^{\circ} 0' 0'' W$; the angle thus determined, reduced by the table, page 100 gives the mean mag. dec. $15^{\circ} 57' E.$</p>
10	<p>From the cor. of secs 1-2. 35 and 36. on S. bdy. of T.P. as heretofore described Hence I run. $N 0^{\circ} 0' W$ bet. secs. 35 and 36 Descend</p>
7.00	Ravine comes N. W. ascend
17.00	Point of ridge bears N. W. descend
36.00	Same ravine comes N.E. ascend
40.00	Set a lava stone $18 \times 14 \times 10$ ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face. and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. W. of cor. Pits impracticable.
53.00	Point of ridge falls N.E. descend
66.75	Same ravine comes N.W. at joints from E. and S.E. ascend
80.00	Set a lava stone $36 \times 8 \times 8$ ins. 27 ins. in the ground for cor. of secs. 25, 26, 35 and 36. marked with 1 notch on S. and E. edges and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable Sand broken Soil rocky - 4 th rate No timber Mountainous land 80. 00 cles.
40.00	East on a random line bet. secs 25 and 36 Set temp $\frac{1}{4}$ sec. cor.
80.10	Intersect E. bdy. of T.P. at the cor. of sec 25, 29, 32 and 36 as heretofore described

Subdivision of T. 28 S. R. 3 W. continued

Thence I run.

West on a true line bet. secs 25 and 36

Over flat, descending gradually.

40.05 Set a trachyte 12 x 8 x 8 ins. 8 ins. in the ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face and
raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high
N. of cor. Pits impracticable

44.00 Dry wash 10 lbs. wide 3 ft. deep course S.W.

52.25 Road bears S.W. and N.E.

57.25 Dry wash 12 lbs. wide 3 ft. deep course S.W.

61.10 Road bears W. and S.E. Thence W. along road

Heavy road

68.00 Ascend 100 ft.

75.50 Top of hill bears N. and S.

Descending 40 ft. to

The cor. of secs. 25, 26, 35 and 36.

Sand broken

Soil rocky and gravelly - 4 $\frac{1}{2}$ to 1 ratio

No timber

Mountainous land 12.00 chs. 68.00 chs. bench

October 23. At this cor. I set off $11^{\circ}42'5''$
on the decl. line and at 12 fm. L. in t. absolve
the sun on the meridian: the resulting
lat. is $38^{\circ}21'N$.

West on a random line bet. secs 26 and 35

40.00 Set temp $\frac{1}{4}$ sec. cor.

82.90 Intersect N. and S. line 2.40 chs. 310.54 ft. from cor. of secs
26, 27, 34 and 35 which is a granite

6x14x10 ins above ground. marked and
witnessed as described by the surveyor
general. I destroy all marks pertaining to
secs. 26 and 35 and set a lava stone

14x9x7 ins 10 ins in the ground for closing
cor. to secs. 26 and 35 marked with C.C. on E. and 1 groove

on S. and 2 grooves on E. faces. and raise a
mound of stone 2 ft. base $1\frac{1}{2}$ ft. high S. of cor.
Pits impracticable.

Thence I run.

East on a true line bet. secs 26 and 35

Subdivision of T. 28 S. R. 3 W. continued.

	Ascend along N. slope of mountain Gulch 100 ft. deep course N.
25.80	Set a lava stone 12 x 8 x 6 ins. 8 ins. in the ground for $\frac{1}{4}$ acre cor. marked $\frac{1}{4}$ on N. face and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high N. of cor. Pits impracticable. Descend
42.90	Set a lava stone 12 x 8 x 6 ins 8 ins. in the ground for $\frac{1}{4}$ acre cor. marked $\frac{1}{4}$ on N. face and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
50.00	Gulch 50 ft. deep course N.
68.15	Rocky gully 70 ft. deep course N. ascend
73.00	Point of ridge falls N. descend 100 ft.
78.00	Gulch course N. W. ascend 100 ft.
82.90	The cor. of secs 25, 26, 35 and 36 Sand broken Soil rocky - 4 th rate No timber Mountainous land 82.90 eas.

11

	No. 01 W. bet. secs. 25 and 26
	Ascend 50 ft. to
2.00	Top of ridge bears E. and W. descend 200 ft.
21.33	Ravine comes W. ascend
23.15	Road bears N. W. and S. E.
28.00	Cross ridge bears N. E. and S. W. descend 100 ft.
36.00	Ravine comes S. W. ascend
40.00	Set a trachyte 12 x 8 x 6 ins. 8 ins in the ground for $\frac{1}{4}$ acre cor. marked $\frac{1}{4}$ on W. face and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high W. of cor. Pits impracticable.
45.25	Road bears N.E. and S.W.
47.00	Top of ridge 70 ft. high bears E. and W. descend
60.00	Ravine comes S. W. 50 ft. deep ascend
67.00	Ridge 75 ft. high bears E. and W. descend
80.00	Set a trachyte 12 x 9 x 7 ins. 8 ins. in the ground for cor. of secs. 23, 24, 25 and 26. marked with 2 notches on S. and 1 notch on E. edges and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high W. of cor. Pits impracticable
	Sand broken
	Soil rocky - 4 th rate
	No timber

Subdivision of T. 28 S. R. 3 W. Continued

Mountainous land 80.00 chs.

20

East on a random line bet. secs 24 and 25

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.02 Intersect E. bdy. of Tp. at the cor. of secs.
20. 24. 25 and 29. as heretofore described
Thence I run

West on a true line bet. secs. 24 and 25

Over flat

3.75 Ascend 100 ft.

9.50 Top of ascent. descent gradual. bench.

40.01 Set a trachyte 15x8x5 ins 10 ins in the ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face and a
a mound of stones 2 ft. base $\frac{1}{2}$ ft. high N. of cor
Pits impracticable

77.00 Descend 30 ft. to

80.02 The cor. of secs 23. 24. 25 and 26

Sand rolling

Soil rocky - & the rate

No timber

Mountainous land 80.02 chs.

12

West on a random line bet. secs 23 and 26

40.00 Set temp. $\frac{1}{4}$ sec. cor.

83.00 Intersect N. and S. lines 0.87 chs S. of cor. of secs.
23, 23, 26 and 27 which is a sandstone
5x8x8. ins above ground. marked and
witnessed as described by the surveyor
general. I destroy all marks pertaining
to secs. 23 and 26 and set a trachyte 16x12x5
ins. 11 ins in the ground for closing corner
to secs. 23 and 26. marked with C.C. on E. & S. faces
grooves are
S. and E. faces. and raise a mound of
2 ft. base $\frac{1}{2}$ ft. high E. of cor.
Pits impracticable.

Thence I run

East on a true line bet. secs 23 and 26

Enter bottom

0.50 Road bears N.E and S.W.

Subdivision of T. 28 S. R. 3 W. Continued

- acres
- 3.00 Foot of ridge ascend
- 13.00 Top of high ridge bears N. and S. descend
- 43.00 Set a trachyte 12x10x9 ins. 8 ins in the
 $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face and raise a
 mound of stone 2 ft. base $\frac{1}{2}$ ft. high. N. of cor.
 Pits impracticable.
- 83.00 The cor. of secs 23. 24. 25 and 26
 Sand broken
 Soil rocky - 4th rate
 No timber
 Mountainous land 83.00 chs.

17

- No° or W bet. secs 23 and 24
 descending 75 ft.
- 13.00 Dry wash 50 ft. wide 5 ft. deep, course W
 Ascend 100 ft. ^{in Dry Canyon}
- 21.00 Top of ridge bears E. and W. descend
- 40.00 Set a trachyte 15x8x5 ins 10 ins in the
 ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face and
 raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high W. of cor.
 Pits impracticable.
- 45.50 Ravine course W. ascend over bench
- 80.00 Set a trachyte 14x9x9 ins. 10 ins in the ground
 for cor. of secs 13. 14. 23 and 24 marked with
 3 notches on S. and 1 notch on E. edges and
 raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high W. of cor.
 Pits impracticable
 Sand broken.
 Soil rocky and gravelly - 4th rate
 No timber
 Mountainous land 80.00 chs.

October 23 1897

18

- East on a random line bet. secs. 13 and 24
- 40.00 Set temp $\frac{1}{4}$ sec. cor.
- 80.04 Intersect E. bdy. of Twp. at the cor. of secs 13.
 17. 20 and 24 as metope described.
 Thence I run
 West on a true line bet. secs. 13 and 24
 Descend gradually over rolling bench

Subdivision of T. 28 S. R. 3 W. continued

chains 40.02	Set a trachyte 10x10x6 ins. 10 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face. and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
80.04	The cor. of secs 13.14.23 and 24 being rolling Soil rocky. No timber mountainous land 80.04 chs.
<u>123</u>	West on a random line bet. secs. 14 and 23 Set temp. $\frac{1}{4}$ sec. cor. Intersect N. and S. lines $51^{\circ}48' E.$ 1.78 chs. of cor. of secs. 14.15.22 and 23. which is a conglomerate 6x9x8 ins in the ground marked and witnessed as described by the surveyor general. I destroy all marks pertaining to secs 14 and 23 and set a lava stone $14 \times 8 \times 5$ ins. 10 ins in the ground for closing cor. to secs. 14 and 23 marked with C. C. iron C. and 8 grooves and 2 grooves on E faces. and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high E. of cor. Pits impracticable Hence I run.
	East on a true line bet. secs 14 and 23 descend
9.50	Ravine comes S. W. ascend
18.00	Top of ridge bears N. E. and S. W.
10.50	Head of ravine comes S. W. ascend
45.51	Set cor. Limestone 10x10x6 ins. 10 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
49.50	Top of ridge bears N. and S. descend
60.00	Foot of ridge there over beach
80.51	The cor. of secs. 13.14.23 and 24 being broken
60W 25.51	Soil rocky $\frac{1}{4}$ rate No timber mountainous land 60. chs
	Oct-24- At this cor. I set off $38^{\circ}23'$ Nor the lat. arc; $12^{\circ}01'$ S. on the decl. arc; and at $9^{\circ}55' 2''$ A. M. Com. b. determine a true meridian with the solar.

Subdivision of T. 28 S. R. 3 W. Continued

time	
	No° or W bet. secs 13 and 14
	descend gradually
8.25	Ravine comes N.W. ascend
10.25	Ridge bears E. and W. descending
15.00	Ridge bears N.W. and S.E.
20.20	Ravine. course W. ascend 25 ft.
26.00	descend 20 ft.
29.50	Ravine comes W. ascend
32.00	Point of ridge falls. W. descend soft
36.54	Ravine course S.W. ascend
40.00	Set a trachyte 14x13x12 ins 10 ins in the Jor ft sec. cor. marked $\frac{1}{4}$ an W. face and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high W. of cor. Pits impracticable
64.00	bears N.E. & S.W. Cross ridge descend 30 ft.
66.72	Ridge bears N.W. and S.E.
71.00	Ridge bears N.E. and S.W.
77.60	Running Creek 4 lbs wide course S.W.
80.00	Set a trachyte 16x12x10 ins 11 ins. in the ground Jor cor. of secs 11.12.13 and 14, marked with 4 notches on S. and 1 notch on E. edges. and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high W. of cor. Pits impracticable.
	A cottonwood 12 ins. diam bears $58^{\circ}25' E$ 210 ft. dist. marked T. 28 S. R. 3 W. S. 13 B. T.
	A cottonwood 12 ins. diam. bears $510^{\circ} E$ 282 ft. dist. marked T. 28 S. R. 3 W. S. 13 B. T.
	No other bearing trees within limits.
	Henry Nelson's house bears $N38^{\circ}15'E$ 48.95 chs. dist. Land broken
	Soil rocky - 4 th rate
	Timber. Cottonwoods along creek
	Mountainous land 80.00 chs.

October 24. I set off $12^{\circ}03' S$ on the decl.
arc and at 12 m. l.m.t. above the sun
on the meridian; the resulting lat. is
 $38^{\circ}23'$ at the cor. of secs 11.12.13 and 14
There I run

Subdivision of T. 28 S. R. 3 W. Continued

chains.	
25	East on a random line bet. secs. 12 and 13
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect E. bdy. of Twp 7 like S. of cor. of secs. 17, 12, 13 and 8. as heretofore described. Hence I run
	S89°05'W on a true line bet secs. 12 and 13 ascend 100 ft.
8.50	Point of ridge falls. S.W. descend
17.50	Gulch course S. ascend
27.50	Cross ridge bears N.E. and S.W. descend
31.00	Enter bottom
34.45	Road bears N.W. and S.E.
34.90	Ditch 5 ft. wide 6 ins. deep comes S.E. enter field.
40.00	Set a flint 16 x 14 x 10 ins. 11 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face and raise a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
46.00	Leave bottom and field. ascend 60 ft.
58.76	Enter rye field
63.46	Leave rye field
69.00	Cross ridge bears N.E. S.W. descend
75.70	Road bears N.E. and S.W. Enter bottom.
77.95	Streaming creek 4 ft. wide 5 ins. deep comes S.W. the cor. of secs. 11, 12, 13 and 14
80.00	Bank broken
31.00 14. 14.	Soil rocky and gravelly. 3rd and 4th rate no timber. Mountainous land 31.00 chs

$\frac{1}{4}$	
40.00	West on a random line bet. secs. 11 and 14.
86.25	Set temp. $\frac{1}{4}$ sec. cor.
	Intersect N. and S. line $30^{\circ}32' E$ 2.17 chs. of the cor. of secs. 10, 11, 14 and 15 which is a conglomerate 5 x 10 x 10 ins. above ground. marked and witnessed as described by the surveyor general. I destroy all marks pertaining to secs. 11 and 14 and set a lava stone 15 x 10 x 10 ins. 10 ins. in the ground. for closing cor. to secs. 11 and 14. marked with C.C. cor. and H.

Subdivision of T. 28 S. R. 3 W. continued

	chambers	grooves on S. and 2 grooves on E. faces and raise a mound of stone 2 ft. base 1½ ft. high E. of cor.
		Pits impracticable
		Fence 3 run.
		East on a true line bet. secs. 11 and 14
		Ascend
17.25		Cross ridge bears N. and S. descending 100 ft.
25.25		Foot of ridge
26.40		Enter lucerne field
36.25		Leaving lucerne field
36.95		Road bears N. E. and S. W.
46.25		Set a trachyte 14 x 8 x 5 ins 11 ins in the ground for ¼ sec. cor. marked ¼ on N. face and raise a mound of stone 2 ft. base 1½ ft. high N. of cor. Pits impracticable
47.25		Road bears N.E. and S. W.
48.10		Fence bears N. and S.
61.53		Fence bears N and S.
85.75		Descending from bench 15 ft. to
86.25		Line cor. of secs. 11. 12. 13 and 14
		Same broken
		Soil rocky and gravelly 3rd and 4th rate
		No timber
		Mountainous land 25.25 chs.

		No° 01 W. bet. secs. 11 and 12
		Ascend 10 ft.
1.00		Enter bench Ascend gradually
16.70		Irrigation ditch 10 ft. wide 6 ins deep comes S.
22.50		Road bears E. and W.
28.43		Road bears N. E. and S. W.
40.00		Set a trachyte 12 x 12 x 6 ins - 8 ins in the ground for ¼ sec. cor. marked ¼ on W. face and raise a mound of stone 2 ft. base 1½ ft. high N. of cor. Pits impracticable
- 80.00		Set. a trachyte 14 x 10 x 6 ins - 10 ins in the ground for cor. of secs. 12. 11 and 12. marked with 5 notches on S. and 1 notch on E. edge. and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable

Subdivision of T. 28 S. R. 3 W. Continued

ains

Sand broken

Soil rocky 4th rate

No timber

mountainous land 80.00 chs.

✓ 18

N. 89° 57' E. on a random line bet. secs 1 and 12

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.06 Intersect E. bdy. of Tp. at the cor. of secs.

1. 3. 8 and 12 as heretofore described.

Hence I run

S 89° 57' W on a true line bet. secs. 1 and 12

Ascent 100 ft.

4.30 Top of ridge bears N. E and S. W. descending 100 ft.

15.00 Gulch comes S. ascending 300 ft.

28.44 Road bears N. and S. on ridge bears N. and S.
descending.

40.03 Set a granite 16 x 12 x 12 ins. 11 ins. in the
ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face
and raise a mound of stone 2 ft base 1 ft.
high N. of cor. Pits impracticable

45.00 Enter bottom

46.10 Road bears N. and S.

46.70 Road bears N and S

47.40 Manning Creek 8 ins wide 1 ft. deep comes S.

49.50 Heavy bottom ascending bluff 100 ft.

55.00 Top of bluff ascending gradually

58.00 Ridge bears N. and S. descending over rolling
country.

- 80.06 The cor. of secs 1. 2. 11 and 12

Sand broken

Soil rocky 4th rate

No timber

mountainous land 80.06 chs

✓ 19

West on a random line bet. secs 2 and 11

40.00 Set temp $\frac{1}{4}$ sec. cor.

87.30 Intersect N. and S. line S 0° 45' E 2.57 chs. of the cor.
secs 2. 3. 10 and 11 which is an iron rock
6 x 12 x 8 ins. above ground. marked and

Subdivision of T. 28 S. R. 3 W. Contained

witnessed as described by the surveyor general. I destroy all marks pertaining to secs. 2 and 11 and set a trachyte 20x14x14 ins. 15 ins in the ground for closing cor. to secs. 2 and 11 marked C.C. on E. and S. groove on S. and E. groove on E. faces. and raise a mound of stone 2 ft. base 1/2 ft. high E. of cor. Pits impracticable hence 3 m.

east are a true line bet. secs. 2 and 11

Over rolling country

27.30 Road bears N.W. and S.E.

27.55 Ascend gradually.

47.30 Set a trachyte 10x8x8 ins 7 ins in the ground for 1/2 sec. cor. marked 1/2 on N. face and raise a mound of stone 2 ft. base 1/2 ft. high N. of cor. Pits impracticable.

81.25 Top of ridge bears N. and S. descend 50 ft.

- 87.30 The cor. of secs 1, 2, 11 and 12

Bank broken

Soil rocky 4th rate

No timber

Mountainous land 87.30 chs

10°01'W on a random line bet. secs 1 and 2

40.00 Set temp. 1/4 sec. cor.

80.10 Intersect N. bdy. of T.P. East. 8.15 chs. from the cor. of secs 1, 2, 3, 5 and 6 which is a sandstone 5x12x10 ins above ground. marked and witnessed as described by the surveyor general.

I destroy all marks pertaining to secs.

1 and 2 and set a white sandstone 10x12x6 ins 10 ins in the ground for closing cor. to secs 1 and 2 marked with C. cor. on south and S. groove on W. and 1 groove on E. faces. and raise a mound of stone 2 ft. base 1/2 ft. high S. of cor. Pits impracticable.

Hence 3 m.

30°01'E on a true line bet. secs. 1 and 2

Ascend over rolling ground

37.00 Top of ridge bears E. and N. descend

43.10 Set a trachyte 12x10x8 ins. 8 ins in the ground

Subdivision of T. 28 S. R. 5. W. Continued.

for $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$ on W. face, and raise a mound of stone 2 ft. base, $\frac{1}{4}$ ft. high. W. of Cor. Pits impracticable.

52.00 Gulch. course S. E. ascend.

61.00 Ridge. bears N. W. & S. E. descend.

- 80.10 Thw cor. to secs 1. 2. 11 & 12.
Land. broken.

Soil, rocky, 4 $\frac{1}{2}$ in. rate.
No timber.

Mountainous land 80.10 chs.

From the cor. to Secs 3 & 10. as heretofore described
I run

No. 01' N. on a random line bet. secs 2 & 3.

40.00 Set temporary $\frac{1}{4}$ Sec. Cor.

50.10 Intersect R. Edge. of Hr. 1.00 chs E. of Cor. of secs
2. 3. 34 & 35, which is a sandstone 5x8x6 in.
above ground, marked and witnessed as
described by the Surveyor General. I destroy
all marks pertaining to Secs 2 & 3. and
Set a trachyte 20x9x8 in., 15 in. in the

d for Closing Cor. to Secs 2 & 3. marked C.
on S. with 2 grooves on E. & 4 grooves on W. faces;
and raise a mound of stone 2 ft. base, $\frac{1}{4}$ ft.
high. S. of Cor. Pits impracticable.
Thence I run

50.01' E. on a true line bet. Secs 2 & 3.

Ascend gradually

25.00 Top of ridge. bears E. & N. descend.

40.10 Set a trachyte 12x8x8 in. 8 in. in the ground
for $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$ on W. face; and raise
mound of stone 2 ft. base, $\frac{1}{4}$ ft. high. W. of
Cor. Pits impracticable.

42.67 Set a trachyte 17x11x5 in. 12 in. in the ground
for $\frac{1}{4}$ Sec. Cor. for Sec. 2. marked $\frac{1}{4}$ on W. face; and
raise a mound of stone 2 ft. base, $\frac{1}{4}$ ft. high. W.
cor. Pits impracticable.

43.00 Ramro. Course S. W. ascend.

61.00 Ridge. bears N. E. & S. W. descend to

80.10 Thw cor. of secs 3 & 10.
Land. broken.

Subdivision of S. 28. S. R. 3. M. Continued

Soil. Rocky. Granitic & ^{to} talus.
No timber.

Mountainous land 80.10 chs.

0

2 1

Oct. 25th 1897. at 8th 50^m A. M. C. m. I set off
38.21' on the lat. arc; 12.19' S. on the decl. arc;
determine a true meridian with the solar. at
the cor. to secos 29-30-31 & 32, which is a
8x10x10 ins. above ground, marked and wit-
nessed as described by the Surveyor General,
thence I run

West on a random line bet. secos 30 & 31,

10.00 Set temporary $\frac{1}{4}$ sec. Cor.

79.46 Intersect W. bdy. of S. at cor. to secos 29-30.
31 & 32, as heretofore described

thence I run

East on a true line bet. secos 30 & 31.

Ascend in scattering cedar & pine.

36.50 Top of ridge. 800 ft. above sec. Cor. bears N. E. S.
descend.

34.96 Set a trachyte 14x10x6 ins. 9 ins. in the ground
at sec. Cor. marked $\frac{1}{4}$ on N. face; and
raised a mound of stone 2 ft. base. 1 ft.
high. N. of Cor. Pit impracticable.

07.00 Head of gulch. course S. E. ascend.

71.00 Top of ridge bears N. W. E. S. E.. descend 200 ft. to

- 79.46 The cor. to secos 29-30-31 & 32.

Land broken.

Soil. Rocky. 4 th talus.

Timber. Scattering cedar & pine.

Mountainous land 79.46 chs.

From the cor. to secos 19-20-24 & 30. which is
a granite 6x12x8 ins. above ground, marked
and witnessed as described by the Surveyor
General.

I run

West on a random line bet. secos 19 & 30.

40.00 Set temporary $\frac{1}{4}$ sec. Cor.

80.00 Intersect W. bdy. of S. at cor. to secos 19.
24-25 & 30. as heretofore described.

Subdivision of T. 28. S. R. 5. N. Continued.

Chains	Thence I run
35.00	East on a true line bet. Secs 18 & 19.
	Ascend 1500 ft. in scattering Mahogany, pines & cedars.
16.50	Top of ridge. bears N.E. S. bears mahogany descend.
40.00	Set a trachyte 16 x 12 x 80 ins. 11 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face; from which a pine 6 ins. in diam. bears NNE. 30° E. 33 lbs dist. marked $\frac{1}{4}$ sec. 13. T.
	A pine 6 ins. in diam. bears NNE. 18 lbs dist. marked $\frac{1}{4}$ sec. 13. T.
54.10	Canyon. course N.E. ascend.
59.80	Ridge. 150 ft. high. bears N.E. E. S. W. descend.
69.10	Head of gulch. course S. Thence E. ascend.
73.50	Top of ridge. bears N.E. S. descend 150 ft.
80.00	The cor. to secs 19-20-29 E. 50. Land broken. Soil. Rocky. 4 thal.
	Timber. Scattering Cedar, pine & mahogany. Mountainous land 80 ch.
	Oct. 25 - 1897. at this cor. I set off 12° 2' S. on the decl. asc; and at 12° 6' N. C. on L. observe the sun on the meridian, the resulting lat. is 38° 22' N.
	From the $\frac{1}{4}$ sec. cor. bet. Secs 18 & 19, which is a Quartzite 6 x 11 x 6 ins. above ground, marked and witnessed as described by the Surveyor General. I run
39.40	West on a random line bet. Secs 18 & 19 Interior W. bdy. of T. at cor. to Secs 15, 18, 19 & 24, as heretofore described.
	Thence I run
	East on a true line bet. Secs 18 & 19.
	Enter scattering Cedars & pines, over descending N.E. to
39.90	The $\frac{1}{4}$ sec. cor. bet. Secs 18 & 19.
	Land. bench.
	Soil. Rocky. 4 thal.
	Timber. scattering cedars & pines;

Subdivision of S. 28. I. R. 3. N.

Having the adjustments of the transit, an
correct the level and collimation errors; then
to test the solar apparatus, by comparing its
indications, resulting from solar observations
made during A.M. & P.M. hours, with a true
meridian determined by observations on Polaris

I proceed as follows,

At the $\frac{1}{4}$ sec. Cor. bel. Sec 18^E/19, as herebefore
described. Latitude $38^{\circ} 23' N.$ longitude $112^{\circ} 18'$.
I set off $38^{\circ} 23'$ on the lat. arc; $12^{\circ} 24' S.$ on the
decl. arc; and at $4^h 30^m$ P.M. l.m.t. determine
with the solar a true meridian, and mark a
point thereof on a stone firmly set in the
ground 5.00 chs. N. of the Cor.

At $11^h 03^m$ P.M. l.m.t. I observe Polaris at
Upper Culmination, in accordance with Manual
of Instructions, and mark a point in the
thus determined by cutting a small groove
in the stone already set 5.00 chs. N. of the Cor.
on which the true meridian falls 0.3 m. west
of the mark determined by the solar.

O ver $26^m 1.84$

At $26^m 18.97$, at $8^h 56^m$ A.M. l.m.t. I set off
 $38^{\circ} 23'$ on the lat. arc; $12^{\circ} 46' S.$ on the decl. arc;
and mark a point in the true meridian
determined with the solar, by a groove on
the stone already set 5.00 chs. N. of the Cor.
this mark falls 0.2 m. west of the true
meridian established by the Polaris observation.

The solar apparatus, by P.M. & A.M. ob-
servations, defines positions for true
respectively about $0'16''$ east and $0'11''$ west of
the meridian established by the Polaris
observation; therefore I conclude that the
adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian
at 9^h A.M. is $N. 16^{\circ} 00' W.$ the angle thus
determined, reduced by the table, page 100,
gives the mean mag. decl. $15^{\circ} 57' E.$

October 26^m 1897.

subdivisions of T. 28. S. R. 3. N. Continued

several sections.

The land embraced in this survey is mostly low mountains. The eastern part of the township is almost destitute of timber or brush, but the western is covered with scrub cedars & pines.

There is considerable tillable land in Secs 11. 12. 13. 14. 24. 25 & 36. but only a part is under cultivation, as the only water that can be used for irrigation comes from Manning Creek, which flows south westerly through Secs 1. 12. 13 & 14. and is all used by Henry Nelson and Maggie W. Sargent.

Henry Nelson has a house, stables and several acres under cultivation in Secs 12 and 13.

Maggie W. Sargent D.E. 3824, has some land under cultivation in the S. $\frac{1}{4}$ of Sec 11. and N. $\frac{1}{4}$ of Sec. 14.

DeWitt C. Thompson D.E. 3014, has about 40 acres under fence, and seeded to alfalfa in the S. $\frac{1}{4}$ of Sec. 25.

Frank Nelson, one of the applicants for survey could not be found.

Katherine Maggie W. Sargent now DeWitt C. Thompson are living in the unrunned part of this township.

The only mineral found in the township is in Secs 19 & 30. where there are cropping of Gold, Silver & Lead ore. I hereby return S. E. $\frac{1}{4}$ Sec. 30 & N. E. $\frac{1}{4}$ Sec. 31. as mineral land.

John J. Breckford
Leomer M. Carty
R. J. Deputy Surveyor

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Survey of Subdivision of C. 28. R. 3. T. 7.

	From the cor. to Secs. 8, 6, 31, & 32 on S. side, of rd. as hereinbefore described I ran North on a survey line bet. Secs. 31 & 32. Enter cedar & pine ascend.
2.00	Ridge bears E. descend.
6.50	Gulch 100 ft. deep. course S. E. ascend.
11.00	Ridge. bears E. & N. descend.
14.50	Gulch 100 ft. deep. course E. ascend.
24.00	Ridge. bears N. E. & N. W. descend.
28.00	Gulch 100 ft. deep. course N. E. ascend.
36.00	Ridge. bears N. E. & N. W. bears timber descend 600 ft. b.
40.00	No trace of old 1/4 sec. cor. Set a tracksite 18 x 12 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. Marked 1/4 on N. face; and raised a mound of stone 2 ft. base, 1 1/2 ft. high. Pit in practicable.
46.50	Low Mile Creek. to the middle course N. E. comes road crossing creek. Bears E. & N. ascend 600 ft.
60.00	Cross point of ridge & thence along E. slope
76.00	Top of ridge. bears E. & N. descend to
80.00	The cor. to secs 29-30-31 & 32. which is a granite 8 x 10 x 10 ins. above ground, marked as mentioned as described by the Surveyor General. United States General Land Office, Mt. Baldy Mining Dist. bears 7032 1/2' E 18.84 ch.
	North bet. Secs 29 & 32. on a survey line Enter scattering cedar & pine. descend 600 ft.
0.90	Gulch. course E. ascend.
18.00	Ridge. 100 ft. high. bears E. & N. descend.
36.00	Gulch. course E. ascend.
40.00	No trace of old 1/4 sec. cor. Set a survey site 16 x 10 x 6 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; and raised a mound of stone 2 ft. base, 1 1/2 ft. high. Pit of cor. Pit in practicable.
46.00	Ridge 60 ft. high. bears E. & N. descend.
53.00	Prairie. course E.
63.00	Scand.
80.00	Cor. cor. to Secs 19, 20, 29, & 30. which is

Measurements of Subdivisions of 1750 & 11.31.11.

a granite stone 2 m. above ground
marked and estimated as described
by the Surveyor General.

October 25th 1897

From the cor. to Secs 2-3-34 3/55 on L.
bdy. of Spt. as heretofore described
I ran.

North on a running line bet. Secs 34 3/55-
40.00 No trace of old corner.
82.37 The cor. to Secs 27 E 3/55- bears East
156 deg dist.

The true course of this line is therefore
N 0° 05' E. and the dist. 82.40 chs.

North on a running line bet. Secs 26 3/57
40.00 No trace of old corner.
78.60 The cor. to Secs 22 3/27 on line.
The true course of this line is North of the dist. 78.60 chs.

October 26th 1897

North on a running line bet. Secs 22 3/26
40.40 The 1/4 sec. cor. bears West 130 deg dist.
80.76 The cor. to Secs 15 E 22 bears West 235 deg
dist.

The true course of this line therefore is
A 1° 48' W. and the dist. 80.80 chs.

North on a running line bet. Secs 14 3/15-
40.20 The 1/4 sec. cor. bears West 57 deg dist.
80.40 The cor. to Secs 10 E 15. bears West 75 deg
dist.

The true course of this line therefore is
A 0° 52' W. and the dist. 80.40 chs.

North on a running line bet. Secs 10 3/11
40.20 The 1/4 sec. cor. bears West 50 deg dist.
80.39 The cor. to Secs 5 E 10 bears West 105 deg
dist.

The true course of this line therefore is
A 0° 45' W. and the dist. 80.40 chs.

Subdivision of S. 28. S. R. 2. W. continued.

home	89° 57' W. on a running line Oct. Sec 3 & 10
50.00	Lth 1/4 dec. cor. on line.
51.00	The cor. to Secs 5-4-8 & 10. bears North 21 ^o West dist:

The true course of this line is therefore West
and the distance 51.00 cho

October 24th 1897.

C. C. C. C.
John J. Preckow
Horner McEarly
W. A. Deputy Surveyor

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Final Oaths of Deputy Surveyor and his Assistants.

LIST OF NAMES.

A list of the names of the individuals employed by John J. Bucknor & Son,
M. Cartier, United States Deputy Surveyor, to assist in running, measuring, and

marking the lines and corners described in the foregoing field notes of the survey of Subdivision of
J. 29 S 30 E R. 3 N. J. 26 S 27 E R. 1 N. J. 26 S 28 E 28 S. R. 2 N. J. 24 S 30 E R. 3 N.
J. 29 S 30 E R. 2 N. J. 28 E R. 2 N. J. 30 E R. 2 N. of the Salt Lake Base Subdivision, etc.
showing the respective capacities in which they acted:

Joseph Johnson Chapman, Alex Morrison, Chainman.
Char. Polman, Chapman, C. H. Morrison, Chainman.
Thomas Bates, Moundman.
Joseph Zollig, Moundman.
Thomas Bates, Axman.
Joseph Zollig, Axman.
Joseph Zollig, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John J. Bucknor & Son,
M. Cartier, United States Deputy Surveyor, in surveying all

those parts or portions of the Subdivision of J. 29 S 30 E R. 3 N. J. 26 S 27 E R. 1 N.
J. 26 S 27 E 28 E R. 2 N. J. 29 S 30 E R. 3 N.
R. 24 S 30 E R. 2 N. J. 28 E R. 2 N. J. 30 E R. 2 N.

of the Salt Lake base
meridian, Flat of Math, which are represented
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
corner monuments established, according to the instructions furnished by the United States Surveyor
General for Math.

Joseph Johnson Chapman, Alex Morrison, Chainman.
Char. Polman, Chapman, C. H. Morrison, Chainman.
Thomas Bates, Moundman.
Joseph Zollig, Moundman.
Thomas Bates, Axman.
Joseph Zollig, Axman.
Joseph Zollig, Flagman.

Subscribed and sworn to before me this 8th
day of November, 1897 }
8:00 A.M. 8:00 P.M.

8:00 A.M. 8:00 P.M.

Commission
March 24/1900

H. Van, Martin,
Notary Public,

Final Oath of United States Deputy Surveyor.

I, _____, United States Deputy Surveyor solemnly swear that, in pursuance of a contract received from _____, United States Surveyor General for _____, bearing date _____ day of _____, 189_____, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____.

_____ of the _____
and _____ meridian, in the _____ of _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and the foregoing are the original field notes of such survey; and should any fraud be detected, I will incur the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor

Subscribed by said _____, and sworn to before me this _____ day of _____, 189_____.}



APPROVAL.

Office of the United States Surveyor General,

Salt Lake City, Utah March 13, 189_____.
28 South Range 3 West of the Salt Lake Base and Meridian Relat

The foregoing field notes of the survey of *the 2nd division of Township
28 South Range 3 West of the Salt Lake Base and
Meridian Relat*

executed by *John T. Bassett & Son in Clarity*
under ~~the~~ contract No. *205*, dated *October 20th*, 189_____, having
critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Jacob T. Bassett
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General

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BOOK A-250

No. 313.

FIELD NOTES

OF THE SURVEY OF THE

*North Pt. East Boundary of T. 7 d. R. 2 N.
of the Salt Lake Meridian,**State of Ut.*

AS SURVEYED BY

John L. Breckinridge, United States Deputy Surveyor,
Under his Contract No. 228, dated October 26, 1896
Survey commenced July 1, 1898
Survey completed July 7, 1898

N. Bdry (High) 44-37-02 ✓
closing 8-00 ✓

E Bdry. (High) 5-79-44 ✓

10.3636

NAMES AND DUTIES OF ASSISTANTS.

J. B. Morris Chairman
J. A. Butler Chairman
Dane Derby Management
Loring Bruchman Stage manager
Ferd. H. Leonard Chairman
A. Morrison "

BOOK A-250

INDEX DIAGRAM.

Township 27⁶, Range 25^W

6	5	4	3	2	1
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19	20	21	22	23	24
20	20	28	27	26	25
31	32	33	34	35	36

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, J. B. Morrison, Fred A. Leonard and A. Morrison, Esq.,
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will lay
chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same
we will report the true distances to all notable objects, and the true lengths of all lines that we as
measuring, to the best of our skill and ability, and in accordance with instructions given us, in the sur-

the North & East boundaries of T. 27 S. R. 2 N. E. & E. boundaries
T. 26 S. R. 3 N. W. & S. boundaries etc. J. B. Morrison, Chai

Fred A. Leonard, Chai

Subscribed and sworn to before me this 26th
day of June, 1898



A. Morrison
J. A. Butler
Homer M. Bartley

Notary Public

WE, One Salisbury and Dave Farpy
do solemnly swear that we will well and truly perform the duties of moundmen in the establish-
ment of corners, according to the instructions given us, to the best of our skill and ability, in the surv-

the N. & E. bds. of T. 27 S. R. 2 N. E. & E. bds. of T. 26 S. R. 3 N.
W. & S. boundaries etc. One Salisbury, Mound

Dave Farpy, Mound

Subscribed and sworn to before me this 26th
day of June, 1898



Homer M. Bartley

Notary Public

WE, One Salisbury and Dave Farpy
do solemnly swear that we will well and truly perform the duties of axmen in the establish-
ment of cor- and other duties, according to instructions given us, to the best of our skill and ability, in the surv-

the N. & E. bds. of T. 27 S. R. 2 N. E. & E. bds. of T. 26 S. R. 3 N.
W. & S. boundaries etc. One Salisbury, Axmen

Dave Farpy, Axmen

Subscribed and sworn to before me this 26th
day of June, 1898



Homer M. Bartley

Notary Public

WE, Le Roy Breckon & William Hedges, do solemnly swear that we will well and truly
perform the duties of flagman according to instructions given us, to the best of our skill and ability, in the
survey of the N. & E. bds. of T. 27 S. R. 2 N. E. & E. bds. of T. 26 S. R. 3 N.
W. & S. boundaries etc. Le Roy Breckon, Flagman

Subscribed and sworn to before me this 26th
day of June, 1898



William Hedges

Homer M. Bartley

Notary Public

My term expires Dec. 1

North boundary of T. 37 S. R. 2 $\frac{1}{2}$ W.

Survey commenced July 4th 1898 and executed with a Survey Mountain transit with solar attachment.

I examined the adjustments of the transit and correct the level and collimation errors. Then to test the solar apparatus by comparing its indications, resulting from solar observations made during A.M. and P.M. hours with a true meridian determined by observations on Polaris. I proceed as follows; July 4th. At the cor. of Tps. 27 S. R 2 $\frac{1}{2}$ and 3 W. which is a sandstone 6x12x10 ins. above ground. marked and situated as described by the surveyor general. Lat. 38°30' N., Long 112°11' W. I set off 38°30' on the lat. arc. 22°30' North decl. arc. and at 3 h 55 m p.m. L.m.t. determine with the solar a true meridian and mark a point thereof on a stone firmly set in the ground 5 chs. N. of the cor.

July 4 1898

July 5. 1898. at 0 h 55 m. A.M. L.m.t. I observe Polaris at eastern elongation in accordance with Manual of Instructions and mark a point in the line thus determined on a peg driven in the ground 5 chs. N. of my station.

At 6 h. 20 m. A.M. L.m.t. I lay off the azimuth of Polaris 113°4' to the west, and mark the true meridian thus determined by cutting a small groove in the stone set July 4th on which the trans falls. 0.3 $\frac{1}{2}$ ins east of the mark determined by the solar.

At 7 h 10 m A.M. L.m.t. I set off 38°30' on the lat. arc. 22°46' N. on the decl. arc. and mark a point in the true meridian determined with the solar. by a cross on the stone already set. 5 chs. N. of my station. This mark falls .30 ins. east of the true

North boundary of T. 27 S. R 2 1/2 W continued.

meridian established by the Palais observation. The solar apparatus by P.M. and A.M. observations defines positions for true meridians, respectively about $0^{\circ}18'$ west and $0^{\circ}16'$ east of the meridian established by the Palais observation; therefore I conclude that the adjustments of the instrument are satisfactory.

At 7 h 20 m A.M. the magnetic bearing of the true meridian is $N 16^{\circ}00' W$. The angle thus determined reduced by the table, page 100 gives the mean mag. decl. $15^{\circ}54' E$.
I begin at the $\frac{1}{2}$ of Twp. 27 S. R 2 1/2 and 3 W.
Hence I run

East on a random line along the North bdy. of Twp. 27 S. R 2 1/2 W. setting temp 77° sec. and sec. compass at intervals of 40.00 chs.; and at 357.02 chs., intersect 8.00 chs N. of the cor. of Twp. 26 and 27 S. R 2 and 2 1/2 W. as heretofore described. I destroy all marks pertaining to R 2 1/2 W. and

Set a trachyte 16 x 14 x 8 in. 11 ins in the ground for
being cor. of Twp. 26 and 27 S. R 2 1/2 W marked $\frac{5R3W}{T27S.R2\frac{1}{2}W}$.

$26\frac{5}{8}R3W$, N. face with 6 grooves on N. and W. faces, from which

An aspen 12. ins. diam bears $N 40^{\circ}30' W$ 23 lbs. dict. marked T 26 S. R 3 W. S. 25 B.T.

An aspen 10 ins. diam. bears $S 46^{\circ}W$ 33 lbs. dict. marked T 27 S R 2 1/2 W. S. 1 B.T.

5 1898

West on a true line set. sec. 1 and 25-
ascend in spruce and aspen.

6.00 Top of ascent, descend

7.00 Spruce and aspen.

7.75 Road bears N. W and S.E.

10.52 Spring creek 1/2 mile 1 ins deep comes S.

13.50 Enter spruce and aspen.

40.00 Top of ridge bears N.E and S.W.

Set a trachyte 14 x 10 x 5 ins 10 ins in the

North boundary of T. 27 S. R. 2 $\frac{1}{2}$ W. Continued

ans

Joe $\frac{1}{4}$ sec. cor. marked $\frac{1}{4} \times$ on N. face.
from which:

A spruce 6 ins. diam. bears $N 36^{\circ} 35' W$ 7 lbs.
dist. marked $\frac{1}{4} \times$ 25 B.T.

A spruce 6 ins. diam. bears $S 87^{\circ} 30' W$ 14 lbs.
dist. marked $\frac{1}{4} \times$ S. 1 B.T.

44.00 Descend on N. slope of ridge.

49.30 Drag road bears N.W. and S.E.

73.00 Fork of Dry Canyon creek 3 ft. wide 3 ins. deep
comes N. ascend

73.50 Road bears N. and S.

80.00 Set a granite 16 x 10 x 7 ins. 11 ins. in the ground
for cor. of sec. 1, 2, 25 and 26. marked with
1 notch on E and 5 notches on W. edges. from
which.

A spruce 6 ins. diam. bears $N 60^{\circ} 20' E$ 32 lbs
dist. marked T. 26 S. R. 3. W. S. 25 B.T.

A spruce 18 ins. diam. bears $S 20^{\circ} E$ 18 lbs. dist.
marked T. 27 S. R. 2 $\frac{1}{2}$ W. S. 1 B.T.

A spruce 6 ins. diam. bears $S 75^{\circ} W$ 27 lbs.
dist. marked T. 27 S. R. 2 $\frac{1}{2}$ W. S. 2 B.T.

A spruce 6 ins. diam. bears $N 27^{\circ} 30' W$ 19 lbs.
dist. marked T. 26 S. R. 3. W. S. 26 B.T.

Same broken

Soil rocky 1/2 acre

Timber. cedars and spruce
mountainous land 80.00 chs.

West bet. sec. 2 and 26

Ascent in Spruce & aspens.

1.00 Creek 3 ft. wide 2 ins. deep comes N.

12.15 Road bears N.W. and S.E.

17.50 Top of ridge 600 ft. above sec. cor. bear N. and S.
descend.

19.85 Same road bears N.E. and S.W.

40.00 Set a sandstone 16 x 11 x 7 ins. 11 ins. in the ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4} \times$ on N. face. from which
a spruce 6 ins. diam. bears $N 85^{\circ} E$ 10 lbs. dist
marked $\frac{1}{4} \times$ S. 20 B.T.

A spruce 12 ins. diam. bears $S 1^{\circ} 10' E$ 24 lbs. dist.

North boundary of T. 27 S. R. 27 W. Continued.

ch	
	marked $\frac{1}{4}$ S. & B.T.
71.05	Creek 4-6s wide 3 ins. deep. in fork of dry creek course N. ascend.
70.00	heavy big timber. entire dead and fallen
- 80.00	Set a granite 18x14x10 ins. 12 ins in the ground for cor. of sec. 2, 3, 26 and 27. marked with 2 notches on E. and 4 notches on W. edges and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high W. of cor. Pits impracticable. Sand broken.
	Soil rocky.
	Timber Spruce & aspens.
	Mountainous land 80.00 chs.
	July 6, 1898 At this cor. I set off $22^{\circ}38'N.$ on the decl. arc. and at 12 m. L m.t. observe the sun on the meridian the resulting lat is $38^{\circ}38'N$

	West bet. sec. 3 and 27
19.70	Ascend along N. slope of rocky ridge in dead timber North point of high rocky ridge bears N.W. and S.E.
24.00	Heavy ridge descending. entire spruce and aspens
40.00	Set a granite 16x10x6 ins. in the ground for pt. sec. cor. marked $\frac{1}{4}$ on N. face from which a spruce 8 ins. diam. bears $83^{\circ}05'E.$ 22 m.t. dist. marked $\frac{1}{4}$ S. & B.T.
	a spruce 6 ins. diam. bears $83^{\circ}05'E.$ 22 m.t. dist.
	marked $\frac{1}{4}$ S. & B.T.
50.00	Heavy spruce
70.00	Head of canyon course N. ascend
71.55	Heavy aspens.
74.00	Top of ridge bears N.E. and S.W. descending 200 ft.
- 80.00	Set a granite 16x10x6 ins. 11 ins in the ground for cor. of sec. 3, 4, 27 and 28 marking with 3 on E. and W. edges. and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high W. of cor. Pits impracticable.
	An aspen 6 ins. diam. bears $N50^{\circ}W$ 12 m.t. dist. marked T. 26 S. R. 3 W. S. 28. B.T. No other bearing trees within limits.

North boundary of S. 27. S. R. 2nd N. Continued.

Drains

Land broken.
Soil. Rocky. 4th rate.
Timber. Aspens & Spruce.
Mountainous land 80 chs.

Meet on a true line bet. Secs 4 & 28.

Descend

13.0	Enter aspens.
23.40	Leave aspens.
40.00	Set a granite 16 x 12 x 4 in. 11 in. in the ground, for 1/4 dec. cor. marked 1/4 on N. face, and raise a mound of stone 2 ft. base, 1/2 ft. high. N. of Cor. Pts impracticable.
42.50	Enter aspens.
44.00	Head of ravine. comes N. W. ascend.
47.50	Leave aspens.
48.50	Lk. of ridge. bears N. W. & S. E. descend.
55.40	Ditch 2 ft. wide. 4 in. deep. comes N. W.
77.55	Wood road. bears N. W. & S. E.
80.00	Set a granite 14 x 8 x 6 in. 10 in. in the ground for cor. to Secs 4.5 - 28. 1/29. mark with 4 notches on E. & 2 notches on N. edges, and raise a mound of stone 2 ft. base, 1/2 ft. high. N. of Cor. Pts impracticable Land. broken.
	Soil. Rocky. 4 th rate.
	Timber. Aspens.
	Mountainous land. 80 chs.

Meet on a true line bet. Secs 5 & 29.

Descend.

7.07	Road. bears N. E. S.
23.07	Ravine. comes N. W. ascend.
29.92	Lk. of ridge. bears N. W. & S. E. descend.
37.02	The Cor. of S. 27. S. R. 2 nd & S. 17. Land. Broken.
	Soil. Rocky. 4 th rate.
	Timber. Scattering groves of aspen
	Mountainous land. 37.02. chs..

6"1898.

ast-bounda

J. 27. S. P. 28. W.

rains

		July 7 th 1898. At 4 th 35 th A.M. C.M.T. I set off 38° 25' N. on the lat. arc 22° 58' W. on the decl. arc; and determine a true meridian with the solar at the cor. of Secs 27 & 28 S. R. 2d T. as heretofore described.
		Hence I run
		North along E. side of Sec. 36.
		Enter Spruce & aspen descend.
51.44		The $\frac{1}{4}$ Sec. Cor. bet. Secs 31 & 36. as heretofore described. I destroy all marks pertaining to Sec. 36.
40.00		Set a sandstone 16 x 12 x 10 in. 11 in. in the ground for $\frac{1}{4}$ Sec. Cor. to Sec. 36. marked $\frac{1}{4}$ on W. face; from which an aspen 4 in. in diam. bears N 25° 20' W 63 lbs dist. marked $\frac{1}{4}$ S. 36. 13. T.
		An aspen 10 in. in diam. bears S 73° 10' W 65 lbs dist. marked $\frac{1}{4}$ S. 36. 13. T.
53.94		Head of ravine 100 ft. dep. course E. ascend.
69.44		Ridge. bears E. & W. descend.
71.44		The Cor. to Secs 25, 30, 31 & 36. as heretofore described. I destroy all marks pertaining to Secs 25 & 36.
75.00		Leave timber. enter brush.
80.00		Set a granite 14 x 10 x 8 in. 10 in. in the ground for cor. of Secs 25 & 36. marked 1 notch on S. & 5 notches on W. edges; and raise a mound of stone 2 ft. base. 1 $\frac{1}{2}$ ft. high. W. of Cor. Pilot impracticable.
		Land. rolling top of mountain.
		Dirt. gravelly. 5 $\frac{1}{2}$ acre.
		Timber. aspens and spruce.
		Mountainous land. 80 chs.
		North along E. bdy. of Sec. 25.
		Enter aspen brush. descend.
1.34		Cotton. course E. Creek 2 lbs wide. 2 in. dep. flows E. leaves brush. ascend.
18.44		Enter aspens.
24.44		Leaves aspens.
31.44		The $\frac{1}{4}$ Sec. Cor. bet. Secs 25 & 30. as heretofore described. I destroy all marks pertaining to

East bound S. L. of S. R. 2nd W. Continued.

- 40.00 Sec. 25. Ridge. bears N. E. & S. E. descend
33.44 Enter aspens.
- 40.00 An aspen tree 3 ins. in diam. for $\frac{1}{4}$ sec. Cor.
to Sec. 25. marked $\frac{1}{4}$ on W. side; from which
An aspen 24 ins. in diam. bears S. 16° 30' W
20 chs dist. marked $\frac{1}{4}$ S. 25. B.T.
- An aspen 10 ins. in diam. bears N. 80° W. 20
chs dist. marked $\frac{1}{4}$ S. 25. B.T.
- 54.44 Hollow. comes E. ascend.
- 57.44 Point-of-ridge. bears N. descend.
- 63.94 Leaves aspens.
- 71.44 The cor. to Secs 17. 24. 25 & 30, as heretofore
described. I destroy all marks pertaining to
Secs 24 & 25.
- 80.00 Set a granite 16x10x8 ins. 11 ins. in the
ground for Cor. to Secs 24 & 25; marked 2
notches on S. & 4 notches on N. edges; and
raised a mound of stone 2 ft. base, $\frac{1}{2}$ ft.
high. W. of Cor. Pits impracticable.
Land, rolling top of mountain.
Soil. Rocky. 4 feet.
Timber. Aspens.
Mountainous land 80 chs.

North along E. bdy. of Sec. 24.
Descend gradually.

- 17.94 Ravine. comes N. W. ascend.
- 23.44 Point-of-ridge. falls N. descend.
- 26.74 Same ravine. comes N. E.
- 31.44 Same ravine. comes N. W. Thw $\frac{1}{4}$ sec. Cor.
bet. secs 19 & 24, as heretofore described. I
destroy all marks pertaining to Sec. 24.
- 34.94 Enter brush & dead timber
- 40.00 Set a Quartzite 16x8x8 ins. 11 ins. in the
round for $\frac{1}{4}$ sec. Cor. to Sec. 24. marked $\frac{1}{4}$
on W. face; and raised a mound of stone
2 ft. base, $\frac{1}{2}$ ft. high. W. of Cor. Pits
impracticable.
- 42.04 Point-of-ridge. bears N. descend
- 48.50 Old wood road. bears N. E. & S. W.
- 71.44 The cor. to Secs 13. 18. 19 & 24, as heretofore des.

East boundary of S. 24, T. R. 24 N. Continued.

cribed. I destroy all marks pertaining to Secs 13 & 14.

16.84 Fork of Manning Creek 2 lhos wide. in course S. W. Leaves dead timber. ascend,

80.00 Set a Quartzite 14x12x7 ins. 10 ins. in the d for Cor. to Secs 13 & 14. marked 3 notches on N. E. S. edges, and raise a of stone 2 ft. base. 1k ft. high. W. of Cor. This impracticable.

Land. broken.

Soil. Rocky. 4th ratio.

Timber. Aspens.

Mountainous land 80. chs.

North along E. bdy. of Sec. 13.
Ascend.

17.04 Ridge. bears N. E. & S. W. descend,

19.44 Enter aspens.

26.34 Leaves aspens.

28.04 Hollow. course S. W. ascend,

31.44 Thd 1/4 Sec. Cor. bot. Secs 13 & 18. as heretofore described. I destroy all marks pertaining to Sec. 13.

32.54 Enter aspen brush.

40.00 Set a sandstone 18x14x10 ins. 12 ins. in the d for N. Sec. Cor. to Sec. 13. marked 1/4 on W. face, from which

An aspen 3 ins. in diam. bears 184° 10' W
28 lhos dist. marked 1/4 S. 13. B. T.

An aspen 3 ins. in diam. bears 1720° 20' W 16
lhos dist. marked 1/4 S. 13. B. T.

41.40 Spring. flows S. W.

The Cor. to Secs 7. 12. 13 & 18. as heretofore described. I destroy all marks pertaining to Secs 12 & 13.

77.04 Enter Spruce & aspens.

80.00 Set a sandstone 20x12x5 ins. 15 ins. in the ground for Cor. to Secs 12 & 13. marked 4 notches on S. E. 2 notches on N. edges; from A spruce 12 ins. in diam. bears 140° 40' W 29
lhos dist. marked T. 37. S. R. 24 W. S. 13. B. T.

East-bound of S. 2 $\frac{1}{2}$ S. R. 2 $\frac{1}{2}$ W. Continued.

A spruce 6 ins. in diam. bears N 58° 30' W
3 chs dist. marked T. 27. S. R. 2 $\frac{1}{2}$ W. S. 12. 18.
Land. broken.

Soil. Rocky, 4th rate.
Timber. Aspen & Spruce.
Mountainous land 80 chs.

North along E. body of Sec. 12.

Ascend in spruce & aspens.

8.09 Ridge. bears E. & W. descend.

31.44 Thru $\frac{1}{4}$ Sec. Cor. bet. Secs 7 & 12, as heretofore described. I destroy all marks pertaining to Sec. 12.

39.04 Leave timber. Enter bottom. 800 ft. below ridge.

40.00 Set a sandstone 16 x 12 x 8 ins. 11 ins. in the ground for $\frac{1}{4}$ Sec. Cor. to Sec. 12. marked $\frac{1}{4}$ on W. face; and raise a mound of stone 2 ft. base. 1 $\frac{1}{2}$ ft. high. W. of Cor. Pilis impracticable.

40.89 Fork of Manning Creek, 3 chs wide. flows S. W.

41.94 Leave bottom, ascend in spruce & aspen.

71.44 Thru Cor. to Secs 1. 6. 7 & 12. as heretofore described. I destroy all marks pertaining to Secs 1 & 12.

76.44 Leave timber.

80.00 Set a sandstone 14 x 12 x 8 ins. 10 ins. in the ground for Cor. to Secs 1 & 12. marked w. notches on S. & E., notch on W. edges; and raise a mound of stone 2 ft. base. 1 $\frac{1}{2}$ ft. high. W. of Cor. Pilis impracticable.

Land. broken.

Soil. Rocky, 4th rate.

Timber. Aspen & Spruce.

Mountainous land 80 chs.

North along E. body of Sec. 1.

Ascend.

2.44 Enter spruce & aspens.

11.44 Ridge. bears W. W. & S. E. descend.

31.44 Thru $\frac{1}{4}$ Sec. Cor. bet. Secs 1. & 6. as heretofore

Bound of T. 27. S. R. 2nd. W.

- cains. Described. I destroy all marks pertaining to sec. 1.
- 34.94 Leans timber.
- 40.00 Set a granite 16 x 8 x 6 ins. 11 ins. in the ground for sec. cor. to sec. 1, marked $\frac{1}{4}$ on N. face; and raise a mound of 2 ft. base 1 $\frac{1}{2}$ ft. high. W. of cor. Post impracticable.
- 42.44 Enter bottom.
- 52.44 Manning Creek & Chasmide. flows S. W.
- 71.44 Th Cor. to sps 26 & 27 S. R. 2nd. W. as described.
- 71.54 Road. bears N. W. of S. C. leans bottom, ascend.
- 74.74 Enter spruce & aspens.
- 79.44 Th. Cor. to sps 26 & 27 S. R. 2nd. W. as heretofore described.
Land broken,
Soil. Rocky & gravelly. 3rd rate.
Timber. Spruce & aspens.
Mountainous land 79.44 chs.

$\frac{1}{8}$ " 18
etc; At the time that I drew this E. boundary I expected to close upon it from the west, but afterwards found it impossible.

Boundaries of T. 27. S. R. 2nd. W.

Latitudes, departures & closing errors.

Line designated as	Distance	Latitude		Departure	
		North	South	East	West
South boundary	East- North	3555.70			3555.70
East boundary	North	479.44	479.44		
North boundary	West- South	357.02			357.02
West boundary	South	480.00		480.00	
Commodity			479.44	480.00	3555.70
			479.44		3555.70
					357.59
Error in dist.: 156		Error in lat.: 1.84			

Note; For General Description, see Subdivision of this township.

John J. Breckin
Gomer McCarry
H. J. Deputy Surveyor

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____

_____, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of _____

showing the respective capacities in which they acted:

_____, Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____

_____, United States Deputy Surveyor, in surveying all those parts or portions of the _____

of the _____

meridian, _____ of _____, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for _____

_____, Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

Subscribed and sworn to before me this _____
day of _____, 189 _____ }



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, United States Deputy Surveyor solemnly swear that, in pursuance of a contract received from United States Surveyor General for bearing date day of 189 , I have well, faithfully, and truly, in proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for the Manual of Surveying Instructions, and the law of the United States, surveyed all those parts or portions of of the meridian, in the of which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for and in the specific manner described in the field notes, all the foregoing are the original field notes of such survey; and should any fraud be detected, I will be subject to the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor

Subscribed by said and sworn to before me }
this day of 189 }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

*Valdosta City Block March 13
The foregoing field notes of the survey of the Griffin East Boundary
Township of South Range 2 1/2 West of the Lake Okeechobee
& Green Island Relating*

executed by *John T. Baccaus* and *Samuel M. Clancy*,
under his contract No. 208, dated October 20, 1896, having
critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Sacred 13 Feb

United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in has been correctly copied from the original notes on file in this office.

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BOOK A-250

FIELD NOTES

OF THE SURVEY OF THE

Subdivision of T. 27 S. R 2 $\frac{1}{2}$ W.

of the Salt Lake Bas^s and Meridian,
State of Utah.

AS SURVEYED BY

John P. Beckon and Homer McCarty United States Deputy Surveyor,
Under their Contract No. 208, dated October 20th, 1896

Survey commenced

July 4, 1898

Survey completed

July 12, 1898

6-161

Sects. (high) 32-63-94 ✓

NAMES AND DUTIES OF ASSISTANTS.

J. B. Marion Chairman
Fred H. Leonard Chairman
A. Marion Chairman
F. A. Butten Chairman
Odele Salisbury Vice-chairman & Secretary
Dane Kirby Vice-chairman & Axeman
Leroy French Flagman
William Lodge Flagman

6-161

Volume

#

R0250

BOOK A-250

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30	29	28	27	26	25
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Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

We, *W. H. Leonard* and *J. P. Butter*, do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will lay chain over even and uneven ground, and plumb the tally pins, either by striking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we measure, to the best of our skill and ability, and in accordance with instructions given us, in the survey of *U. S. G. S. R. & W. of the Lake Erie* *Academy Dist.*

J. B. Morrison, Chai
W. H. Leonard, Chai

Subscribed and sworn to before me this 26
day of June, 1898



A. Dyer, Chai
J. A. Butter, Ch.
H. M. Farley

Notary Public

We, *Chas. Salisbury* and *Dave Farley*, do solemnly swear that we will well and truly perform the duties of mountmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of *U. S. G. S. R. & W. of the Lake Erie* *Academy Dist.*

Chas. Salisbury, Mount
Dave Farley, Mount

Subscribed and sworn to before me this 26
day of June, 1898



H. M. Farley

Notary Public

We, *Chas. Salisbury* and *Dave Farley*, do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of *U. S. G. S. R. & W. of the Lake Erie* *Academy Dist.*

Chas. Salisbury, Ax
Dave Farley, Ax

Subscribed and sworn to before me this 26
day of June, 1898



H. M. Farley

Notary Public

We, *W. H. Leonard* and *W. H. Leonard*, do solemnly swear that we will well and truly perform the duties of flagman according to instructions given us, to the best of my skill and ability, in the survey of *U. S. G. S. R. & W. of the Lake Erie* *Academy Dist.*

Le Roy Breckon, Flagm
William Hodges

Subscribed and sworn to before me this 26
day of June, 1898



H. M. Farley

Notary Public

My Comm expires Dec 18th 1898

Subdivision of T. 27 S. R. 2^{1/2} W.

Survey commenced July 4 1898 and executed with Guly Surveyor's transit and Guly Mountain transit each with solar attachment.

I examine the adjustment of the transit and correct the level and collimation errors, then to test the solar apparatus, by comparing its indications, resulting from solar observations made during A. M. and P. M. hours, with a true meridian determined by observations on Polaris. I proceed as follows, with Guly Surveyor's transit.
At the cor. of secs., 2, 3, 34, and 35 on S. bdy of Lat 38° 25' N long. 112° 09' W If, I set off 38° 25' on the lat. arc. 22° 50' N. on the decl. arc. and at 4 h 20 m. P. M. L. M. t. determine with the solar a true meridian, and mark a point thereon on a stone firmly set in the ground 5 chs. N. of the cor.

July 4 1898

July 5, at 0 h. 30 m. A. M. L. M. t. I observe Polaris at eastern elongation in accordance with Manual of Instructions, and mark a point on a plug driven in the ground 5 chs. N. of my station.

At 6 h. 10 m. A. M. L. M. t. I lay off the azimuth of Polaris 1° 34' V to the west and mark the true meridian thus determined by cutting a small groove in the stone set July 4 on which the true meridian falls, 0.3 ins east of the mark determined by the solar. At 7 h. 15 m A. M. L. M. t. I set off 38° 25' on the lat. arc. 22° 47' N. on the decl. arc. and mark a point in the true meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station; this mark falls, 0.2 ins, East of the true meridian established by the Polaris observation.

Subdivision of T. 27 S. R. 2 $\frac{1}{4}$ W. continued

series

The solar apparatus by Prof. Dr. and Dr. De
observations defines positions for
meridians respectively about $0^{\circ}16'$
and $0^{\circ}10'$ east of the meridian set
by the Polaris observations, therefore
conclude that the adjustments of the
instrument are satisfactory.

The magnetic bearing of the true
meridian at 8h 25m. A. M. is N $16^{\circ}00'W$
the angle thus determined, reduced by
the table, page 100 gives the mean mag.
decl. $15^{\circ}55'E$

As it is impossible to run N. bet. secs.
35 and 36 on account of high bluffs and
cliffs. I begin

From the cor. of secs. 2, 3, 34 and 35 on So-
bly. of 7 $\frac{1}{2}$ as heretofore described
thence I run.

$N 0^{\circ}01'W$ bet. secs 34 and 35
ascend 200 ft.

24.00 Top of ridge. bear E and W. descend in
scattering cedars and pines.

40.00 Set a trachyte 16 x 18 x 7 ins. 11 ins in
the ground for pt. cor. marked $\frac{1}{4}$ pt. on N.
face and raise a mound of stone 2 ft.
base $1\frac{1}{2}$ ft. high W. of cor. Pits imprac-
ticable.

80.00 Set a trachyte 18 x 10 x 6 ins. 12 ins in
ground for cor. of secs 26, 27, 34 and 35
marked with one notch on S. and 2
on E. edges and raise a mound of stone
2 ft. base $1\frac{1}{2}$ ft. high W. of cor.
Pits impracticable

Land broken

Soil rocky, 4 $\frac{1}{2}$ rate

Timber scattering cedars and pines
mountainous land 80.00 chs

Subdivision of T. 27 S. R. 2 1/2 W. continued

secs.

As it is impossible to run C. bet. secs 26 and 35 on account of high bluffs and cliffs.

Then I run

No. 01 W bet. secs 26 and 27

Descent in scattering cedars and pines.

40.00 Set a trachyte 16x12x8 ins. 11 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor.

Pits impracticable.

50.00 Manning Creek 10 lks wide 6 ins deep course S.W. ascend

75.00 Gulch 50 ft. deep comes S.E.

80.00 Set a trachyte 20x12x8 ins. 14 ins in the ground for cor. of secs 22, 23, 26 and 27 marked with 2 notches on S. and E. edges, and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable
Sand broken

Soil rocky - 4th rate

Timber scattering cedars and pines.

Mountainous land 80.00 acs.

East bet. secs. 23 and 26

Ascend 100 ft.

8.00 Lf of ridge comes N. and S. descent 500 ft

32.00 Manning Creek 10 lks wide 6 ins deep course S.W. descend

- 40.00 Set a trachyte 16x10x7 ins. 11 ins in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable.

Sand broken

Soil rocky - 4th rate.

No timber

Mountainous land 40.00 acs.

It is impossible to continue this line on account of cliffs and bluffs.

Subdivision of T. 27 S. R. 2 1/2 W. Continued

Chamis

	July 5.	I set off. $22^{\circ}45'N.$ on the decl. arc. and at 12 m. h.m.t. observe the sun on the meridian: the resulting lat. is $38^{\circ}27'N$ at the cor. of secs. 22, 23, 26 and 27
		Then I sun.
	$N 0^{\circ}01'W$ bet. secs. 22 and 23	
	Ascend 500 ft. in scattering aspens.	
23.00	Cross ridge bears N.W. and S.E.	
40.00	Set a trachyte 16x10x6 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face, and raise a mound of stone 2 ft. base 1/2 ft. high W. of cor. Pits impracticable	
	An aspen 6 ins. diam bears $N 23^{\circ}10'E$ 107 lbs. dist. marked 1/4 S 23 B.T.	
	No other bearing trees within limits.	
62.00	Cross ridge bears N.E. and S.W.	
66.75	Enter aspens.	
73.00	Leave aspens.	
- 80.00	Set a trachyte 14x12x6 ins. 10 ins. in the ground for cor. of secs. 14, 15, 22 and 23 marked with 3 notches on S. and 2 notches on E. edge. and raise a mound of stone 2 ft. base 1/2 ft. high W. of cor. Pits impracticable.	
	An aspen 6 ins. diam bears $N 5^{\circ}15'E$ 40 lbs. dist. marked T. 27 S. R. 2 1/2 W. S. 14 B.T.	
	An aspen 6 ins. diam. bears $S 77^{\circ}45'W$. 24 lbs. dist. marked T. 27 S. R. 2 1/2 W. S. 22 B.T.	
	An aspen 8 ins. diam. bears $N 56^{\circ}15'W$ 130 lbs. dist. marked T. 27 S. R. 2 1/2 W. S. 15 B.T.	
	No other bearing trees within limits.	
	Soil rocky - 4th rate timber. Trees of a few mountainous land 80.00 chs.	
	Cost set. sec. 14 and 23.	
	Ascend	
12.00	Top of high ridge bears N.E. and S.W.	

Subdivision of T27S. R. 2½ W. Continued

- ains
 14.00 Descend 150 ft. to
 19.00 Gulch coming S.W. ascend 200 ft.
 30.60 Spring. flows S.
 40.00 Set a trachyte 20x8x8 ins. 15 ins. in the ground for
 1/4 acre. cor. marked 1/4 on N. face and raise a mound
 stone 2 ft. base 1/2 ft. high N. of cor. Pit impracticable
 41.00 Cross ridge bears N. and S.
 43.00 Enter aspene.
 80.00 Set a trachyte 12x12x6 ins. 8 ins. in the ground for
 cor. of secs. 13, 14, 23 and 24. marked with 3 notches on
 S and 1 notch on E. edges; from which:
 An aspen 5 ins. diam. bears N 6° 30' E 12 lbs. dist.
 marked T. 27S. R 2½ W. S. 18 B.T.
 An aspen 4 ins. diam. bears S 39° 30' E 9 lbs. dist.
 marked T. 27S. R 2½ W. S 24 B.T.
 An aspen 5 ins. diam. bears S. 82° 15' W 21 lbs.
 dist. marked T. 27S. R 2½ W. S 23 B.T.
 An aspen 4 ins. diam. bears N 64° 10' W 72 lbs.
 dist. marked T. 27S. R. 2½ W.S 14 B.T.
 Sand broken
 Soil rocky - 4 th rate
 Limber - aspens 37.00 cbs.
 Mountainous land 80.00 cbs.

5

July 6. At 7h. 25m. A.M. . m.t. Jack off $38^{\circ} 28'$ in the
 lat. arc. $22^{\circ} 41'$ N. on the decl. arc. and determine a true
 meridian with the solar at the cor. of secs. 13, 14, 23 and 24

Then I run

$NO^{\circ} 01' W$ bet. secs. 13 and 14

Rising in scattering aspens and pines, along W. side of cuton

- 30.00 Granning creek 8 lbs. wide comes S.E. ascend
 40.00 Set a trachyte 16x10x6 ins. 11 ins. in the ground
 1/4 acre. cor. marked 1/4 on W. face. and raise a
 mound of stone 2 ft. base 1/2 ft. high N. of cor. Pit impracticable
 43.00 Point of ridge falls. W. descend
 65.00 Granning creek 8 lbs. wide comes S.W. ascend
 80.00 Set a trachyte 10x12x9 ins. 10 ins. in the ground for
 cor. of secs. 11, 12, 13 and 14 marked with 3 notches on S.
 and 1 notch on E. edges. and raise a mound of stone
 2 ft. base 1/2 ft. high N. of cor. Pit impracticable
 A pine 2 ins. diam. bears N 87° E 25 lbs. dist. marked

Subdivision of T. 27 S. R.R. 1/2 W. Continued.

ans

T. 27 S. R.R. 1/2 W. S. 12. B.T.
no other bearing trees within limits.
Stand broken.

Soil rocky - 4 $\frac{1}{2}$ in. late,

Timber scattering aspens and pines
Mountainous land 80.00 chs.

It is impossible to continue this line N. on account of bluffs

Thread the cor. of secs. 14, 15, 22 and 23

Hence I run

NW^o 01' W lat. secs. 14 and 15-

Descend

Enter aspen brush

Stream 2 ft. wide 1 in. deep in hollow course NW^o
Stand aspen brush.

Cross ridge. bears E and W. descending in spruce and aspen

Set a granite 18x12x4 ins. 12 ins. in the ground for
1/4 sec. cor. marked $\frac{1}{4}$ on W. face. from which:

a spruce 10 ins. diam. bears 378° 20' E 40 lbs. dist. marked NW^o 14 B.
a spruce, 12 ins. diam. bears NW^o 20' W. 19 lbs. dist. marked NW^o 15 B.

51.05 Creek 2 ft. wide 2 ins. deep in canon 500 ft. deep course W.
bearing spruce and fallen timber and enter aspen brush. ascen

- 80.00 Set a trachyte 16x10x6 ins. 11 ins. in the ground for
of secs. 10, 11, 14 and 15 marked with 4 notches on S and 2
on E. edges and raise a mound of stone 2 ft. base 1/2 ft
high W. of cor. Posts impracticable
Stand broken

Soil rocky - 4 $\frac{1}{2}$ in. late

Timber spruce and aspen

Mountainous land 80.00 chs.

July 6. At this cor. I set off 22° 37' N on the decl. line and at
12 m. l. n. t. above the arm on the meridian. The resulting lat is 35° 28' ✓

East on a random line bet. secs. 11 and 14

Set temp $\frac{1}{4}$ sec. cor.

Intersect N. of S. line at the cor. of secs. 11, 12, 13 and 14
Hence I run.

Thread on a true line bet. secs. 11 and 14
Descending in aspens.

12.00 Cross ridge. bears N.E. and S.W. descended

creek 1 ft. wide 1 in. deep course S.

Bear aspens.

Subdivision of T. 27 S. R 2 1/2 W. Continued

ans

- 40.00 Point of ridge falls S. W.
Set a trachyte 12x10x9 ins. 8 ins. in the ground for
1/4 sec. cor. marked 1/8 on N. face. and raise a mound of
stone 2 ft. base 1/2 ft. high W. of cor. Pits impracticable.
- 44.00 N. Fall of running creek extends wide. comes S.E. into a sparses
65.00 Top of ridge bears S. W. and N. E. descending
the cor. of secs. 10, 11, 14 and 15
Sand broken
Soil rocky - 4 $\frac{1}{2}$ ins. late
Timber aspens.
Mountainous land 80.00 clrs.

140° 01' W bet. secs. 10 and 11

crossing in aspen brush

- 14.50 Cross point of ridge. falls W. descend
Hollow comes W. ascend
Heavy aspen brush
Cross point of ridge. falls W. descend
Head of Smith's canon 8.5 clrs. thence S. W. ascend
Set a granite 18x12x8 ins. 10 ins. in the ground for.
1/4 sec. cor. marked 1/8 on W. face and raise a
mound of stone 2 ft. base 1/2 ft. high W. of cor. Pits impracticable
Cross ridge bears N. W. and S. E. enter a sparses an
aspen. descend.
50.00 Head of canon comes E. thence S. E. ascend
Set a porphyry 16x12x8 ins. 11 ins. in the ground
for cor. of secs. 2, 3, 10 and 11 marked with 5
on S and 2 notches on E. edges, from which
a sparses 18 ins. diam. bears N 28° E 47 clrs.
marked T. 27 S. R 2 1/2 W. S. 2 B.T.
a sparses 24 ins. diam. bears S 50° 45' E. 26 clrs.
dist. marked T. 27 S. R 2 1/2 W. S. 11 B.T.
a sparses 12 ins. diam. bears S 12° 10' W 69 clrs.
dist. marked T. 27 S. R 2 1/2 W. S. 10 B.T.
a sparses 8 ins. diam. bears N 43° 35' W 26 clrs. -
marked T. 27 S. R 2 1/2 W. S. 3 B.T.
Sand broken
Soil rocky - 4 $\frac{1}{2}$ ins. late
Timber. sparses and aspen.
Mountainous land 80.00 clrs.

Subdivision of T. 27 S. R. 2 $\frac{1}{2}$ W. Continued

It is impossible to run East lat. sec. 2 and 3
or to continue this line North lat. secs. 2 and 3
on account of high bluffs and cliffs.

6189

T. At 9 a.m. A.M. l.m.t. I set off
 $38^{\circ}25'$ on the lat. arc. $22^{\circ}34'$ N. on the decl. arc.
 and determine a true meridian with
 the solae at the cor. of secs. 3, 4, 33 and 34
 on S. side of Tp as heretofore described.

Thence I run.

$NO^{\circ}02'W.$ bet. secs. 33 and 34.

Ascend

4.00 Cross ridge bears N. W. and S. E. descend in scattering cedar
 16.50 Stream 2 ft. wide 3 ins. deep in gulch comes N. W. ascend
 40.00 Set a trachyte 10x10x6 ins. 10 ins. in the ground
 for 1/4 sec. cor. marked $\frac{1}{4}$ on W. face and raise
 a mound of stone 2 ft. long $1\frac{1}{2}$ ft. high W. of cor.
 Pits impracticable

- 46.00 Top of ridge bears N. W. and S. E. descend

80.00 Set a trachyte 18x16x5 ins. 12 ins. in the ground
 for cor. of secs. 27, 28, 33 and 34 marked
 with 1 notch on S and 3 notches on E.
 edges and raise a mound of stone 2 ft. 6
 $1\frac{1}{2}$ ft. high W. of cor.
 Pits impracticable

Bank broken

Soil rocky - 4th rate

Timber scattering cedar.

Mountainous land 80-00 elev.

T. At this cor. I set off $22^{\circ}32'$ N on
 a decl. arc. and at 12 m. l.m.t. observe
 the sun on the meridian; the
 lat. is $38^{\circ}26\frac{1}{2}'$

East on a random line bet. secs 27 and 34

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.06 Intersect N. and S. line 9 ft. N. of cor. of secs
 26, 27, 34 and 35.

Thence I run

Subdivision of T. 27 S. R. 2 $\frac{1}{2}$ W. Continued

area

$N 89^{\circ} 56' W.$ on a true line bet. secs. 27 and 34
descend in scattering cedars and pines

- 40.03 Set a trachyte 16 x 10 x 5 ins 11 ins. in the
ground for $\frac{1}{4}$ sec. cor. marking $\frac{1}{4}$ on N.
face and raise a mound of stone 2 ft.
base, $\frac{1}{2}$ ft. high W. of cor.
Pits impracticable

- 80.06 The cor. of secs. 27, 28, 33 and 34
sand broken.
Soil rocky - 4th rate
Limber scattering cedars and pines.
Mountainous land 80.06 chs.

$N 0^{\circ} 02' W$ bet. secs. 27 and 28
descend

- 3.20 Manning Creek 12 lbs. wide 6 in. deep
S. W. descend.

- 40.00 Set a trachyte 17 x 11 x 4 ins. 12 ins in the
ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W.
ace. and raise a mound of stone 2 ft.
base $\frac{1}{2}$ ft. high W. of cor.
Pits impracticable.

- 64.00 Cross ridge 400 ft. high bears E and W.

65.00 Descend 200 ft.

- 75.70 Creek 1 lk. wide 1 in. deep in canon comes 3.
Ascend in scattering cedars and pines.

- 80.00 Set a porphyry 20 x 8 x 6 ins. 14 ins. in the
ground, for cor. of secs. 21, 22, 27 and 28
marked with 2 notches on S and 3 notches
on E. edges and raise a mound of
2 ft. base $\frac{1}{2}$ ft. high W. of cor.
Pits impracticable.

A mahogany 12 ins. diam. bears $N 22^{\circ} 45' E$
22 lbs. dist. marked T. 27 S. R. 2 $\frac{1}{2}$ W. S. 22 B. T.

A mahogany 6 ins. diam bears $N 62^{\circ} 45' W$
7 lbs. dist. marked T. 27 S. R. 2 $\frac{1}{2}$ W S 22 B. T.

No other bearing trees within limits
Sand broken.

Soil rocky - 4th rate

Limber scattering cedars and pines

Subdivision of T. 27 S. R. 2 $\frac{1}{2}$ W. Continued

chains

Mountainous land 80.00 acres

- 58° 56' E on a random line bet. secs. 22 and 27
 40.00 Set temp $\frac{1}{4}$ sec. cor.
 80.10 Intersect N. and S. lines at the cor. of
 secs. 22, 23, 26 and 27.
 Then 3 min.
 N 89° 56' W on a true line bet. secs. 22 and 27
 Descend 75 ft.
 41.00 Ravine comes S.E. ascend
 40.05 Set a trachyte 20x8x8 ins. 14 ins. in the
 ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. E.
 and raise a mound of stone 2 ft. base
 $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable
 41.00 Top of ridge bears N.E. and S.W. descend 800.
 74.50 Creek 1/4 in wide 1 in deep in canon comes S.W.
 Enter scattering cedars and pines. ascend
 - 80.10 The cor. of secs. 21, 22, 27 and 28.
 Land broken
 Soil rocky - + th. rate.
 Timber - scattering cedars and pines
 Mountainous land 80.10 acres

1848

N 0° 02' W bet. secs. 21 and 22.

Ascend in scattering cedars and pines.

- 40.00 Set a trachyte 14x10x6 ins. 10 ins. in the
 ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W.
 face and raise a mound of stone 2 ft.
 $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable
 46.00 Top of ridge bears N.E. and S.W. descend 600
 66.80 Enter canon comes S.W. leaving cedars and pines
 67.15 Canon road bears N.E. and S.W.
 67.50 Creek ^{with} 4 ft. wide 3 ins. deep comes S.W. enter
 scattering mahogany, ascend
 - 80.00 Set a granite 18x6x6 ins. 12 ins. in the
 ground for cor. of secs. 15, 16, 21 and 22
 marked.
 27 S. on N.E.
 2 $\frac{1}{2}$ W on S.E. face with 3 notches on S.
 and E. edges; and raise a mound of

Subdivision of T. 27 S. R. 2 1/2 W. Continued

airs

2 ft. base 1 1/2 ft. high N. of cor. Pits imperceptible.

Soil broken

Soil rocky - 4 th rate

Limber - scattering cedars pines and mahogany
mountainous land 80.00 chs.

July 8th at this cor. I set off 58° 28' 00" the lat. alt. 52° 27' 00" on the arc and determine a trilateration with the solns. at 8° 25' 00" 6° 58' 00" E on a random line bet. secs 15 and 22.

40.00 Set temp 1/4 sec. cor.

80.00 Intersect N. and S. line & the S. of cor. of secs 14, 15, 22 and 23.

Hence I run

which on a true line bet. secs. 15 and 22.
descend.

1.50 Enter scattering spruce and aspens.

26.00 Gulch 50 ft. deep comes N. W.

40.00 Set a trachyte 14 x 11 x 7 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face. and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor.

Pits imperceptible.

descend.

52.70 Canon road bears N.E. and S. W.

53.10 creek 4 tho. wide 3 ins. deep. comes. S. W. & scattering spruce and aspens. enter scattering mahogany ascend 300 ft.

- 80.00 The cor. of secs. 15, 16, 21 and 22.

Soil broken.

Soil rocky 4 th rate

Limber scattering spruce aspen and mahogany
mountainous land 80.00 chs.

N 0° 02' W bet. secs. 15 and 16

ascend.

5.00 Enter scattering mahogany.

27.00 Top of ridge bears N.E. and S. W. descend

40.00 Set a Quartzite 14 x 8 x 4 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face. and raise a mound of stone 2

Sub-division of T. 27 S. R. 2 $\frac{1}{2}$ W. continued.

	base $1\frac{1}{2}$ ft. high. W. of cor. Pits impracticable
47.00	Gulch 200 ft. deep. comes S. W. ascend
57.00	Top of ridge bears S.W. and N.E. descend
62.00	Enter spruce.
69.50	Rock of canyon comes W. leaves spruce ascend 400 ft.
- 80.00	Set a Quartzite 16 x 12 x 10 ins 11 ins. in the ground for cor. of secs. 9, 10, 15 and 16 marked with 4 notches on S. and 3 notches on E. edges. and raise a mound of 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable. Sand broken. Soil rocky - $4\frac{1}{2}$ in rate Limber. spruce and scattering Mahogany Mountainous land 80.00 chs.
	July 8, 1898 at this cor. I set off $22^{\circ}20' N.$ in the decl. sec. and at 12 m. L. m. t. ob- serve the sun on the meridian: The resulting lat. is $38^{\circ}28'$.
40.00	East on a random line bet. secs 10 and 15 Set temp. $\frac{1}{4}$ sec. cor.
79.90	Intersect N. and S. lines at the cor. of secs 10, 11, 14 and 15. Then I run
15.00	West on a true line bet. secs 10 and 15 descend in scattering aspens.
39.95	Creek 2 ft. wide 2 m. deep. in Smith Canyon comes S. ascend heavy aspens.
	Set a quartzite 16 x 10 x 6 ins. 11 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
52.00	Top of ridge bears N. W. and S.E. descend in aspens
75.50	Quartzite cliff 100 ft. high 200 chs. diam.
76.50	Descending in dense brush, heavy aspens.
- 79.90	The cor. of secs. 9, 10, 15 and 16 Sand broken

Subdivision of T. 27 S. R. 2 $\frac{1}{2}$ W. Continued

mins

Soil rocky
Timber, scattering cedar
Mountainous land 79.90 cles.

N $0^{\circ} 02' W.$ bet secs. 9 and 10

Ascend

4.00 Enter aspens

25.00 Top of ridge comes S and W. descend

40.00 Set a trachyte 16x60x6 ins. 11 ins. in the ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face and raise
a mound of stone 2 ft. high $\frac{1}{2}$ ft. high W. of cor.
Pits impracticable

No bearing trees within limits

42.00 Canon comes W. ascend

69.00 Point of ridge, falls W. descend

75.50 Gulch, comes S. W. leaves aspen ascend

- 80.00 Set a granite 16x10x8 ins. 11 ins. in the ground
for cor. of secs. 9 and 10. marked with 5
notches on S. and 3 notches on E. edges, and
raise a mound of stone 2 ft. high $\frac{1}{2}$ ft. high
W. of cor. Pits impracticable.

Bank broken

Soil rocky - 4 th rate

Timber aspen.

Mountainous land 80.00 cles.

East on a random line bet. secs. 3 and 10

40.00 Set temp $\frac{1}{4}$ sec. cor.

79.80 Intersect N and S. line 5 lbs. N. of cor. of secs.
2, 3, 10 and 11

Then 1 mm

N $89^{\circ} 58' W.$ on a true line bet. secs. 3 and 10

Ascend 50 ft. in spruce.

8.50 Top of ridge comes N.E. and S.W. descend
Marysville Peak bears S $45^{\circ} W$ 30.00 cles

30.00 Head of ravine comes N.W. ascend gradually
39.90 Set a quartzite 14x10x10 ins. 10 ins. in the
ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face
from which

Subdivision of T. 27 S. R 27 W. Continued

ains

- A spruce 8 ins. diam bears N 84° 30' W 33 lbs.
dist. marked $\frac{1}{4}$ sec. 8 B.T.
- A spruce 14 ins. diam. bears S 93° 00' E 24 lbs.
dist marked $\frac{1}{4}$ sec. 10 B.T.
- 41.00 Spruce spruce
- 41.50 Cross ridge bears N.W and S.E. descend.
- 43.00 Enter aspens
- 50.00 Enter scattering spruce leave aspens
- 76.00 Head of Gulch comes S.W. heavy timber, ascend.
- 79.80 The cor. of secs 3.4.9 and 10
Sand broken
Soil rocky - 4th rate
Timber spruce and aspen.
Mountainous land 79.80 chs

N 0° 02' W. on a random line bet. secs 3 and

- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.00 Intersect N. bdy. Sp. 9 lbs. W. of cor. of secs
3.4.27 and 28. as heretofore described.
Hence I run.
- S 0° 02' W on a true line bet. secs. 3 and 4
Ascend.
- 16.90 Top of ridge 100 ft. high bears N.W and S.E.
- 36.80 Gulch 4 lbs. wide 2 ins. deep. comes N.W. ascend
- 40.00 Set a conglomerate stone 10x11x6 ins. 10 ins in
the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W.
and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft.
W. of cor. Bits impracticable.
- 40.50 Road bears N.W and S. E.
- 47.00 Enter spruce and aspen. descend
- 47.50 Creek 4 lbs. wide 2 ins. deep comes W. ascend
200 ft. in dense spruce and aspen.
- 68.00 Top of ridge bears E and W. descend.
- 73.00 Heavy spruce and aspen.
- 80.00 The cor. of secs. 3.4.9 and 10
Sand broken
Soil rocky - 4th rate
Timber spruce and aspen.
Mountainous land 80.00 chs.

Subdivision of T. 27 S. R. 2 1/2 W. Continued

cont.

July 9. At 7 h. 30 m. A. M. L. m. t. I set
 $38^{\circ}25'$ on the lat. arc. $22^{\circ}21'$ N. on the decl.
 arc. and determine a true meridian with
 the solar. at the cor. of secs. 4, 5, 32 and 33 on
 S. bdy of H. as heretofore described.
 Hence I run.

$10^{\circ}03'$ W. bet. secs 32 and 33

Descending in scattering cedar and pines

Old wag beams N. W. and S. E.

creek 2 lbs. wide 2 ins. deep comes N. ascend

Top of ridge beams E. and W. descending gr.

Set a trachyte 16x10x5 ins. 11 ins in the
 ground cor. marked with $\frac{1}{4}$ on W. face.
 which

A cedar 6 ins. in diam. beams $N73^{\circ}E.$ 33 lbs.
 dist. marked $\frac{1}{4}$ S. 33 B. T.

A cedar 10 ins. diam. beams $N64^{\circ}W$ 42 lbs.

marked $\frac{1}{4}$ S. 32 B. T.

descending 80 ft.

41.00 Enter bottom

41.85 Manning creek 10 lbs. wide 8 ins. deep comes W.

44.00 Canon road. beams N.C. and S.W.

beav. bottom ascend

Ridge 200 ft. above sec. cor. beams N.E. and S.W.

80.00 Set a trachyte 16x11x7 ins. 11 ins in the
 ground. in small gulch. for cor. of secs.
 28, 29, 32 and 33. marked with 1 notch
 S. and 4 notches on E. edges. and raise a
 mound of stone 2 ft. base. 1 ft. high. W. of
 cor. Pits impracticable

Stone broken

Soil rocky & th. rate

Timber scattering cedar and pines

Moraineous land 80.00 lbs.

July 9 At this cor. I set off $22^{\circ}19'$ N. on
 the decl. arc. and at 12 m. l. m. t. observe
 the sun on the meridian: the
 lat. is $38^{\circ}26'$

Subdivision of T. 27 S. R. 2½ W. continued

	1. runs	
40.00		East on a random line bet. secs. 28 and 33
		Set temp $\frac{1}{4}$ sec. cor.
80.00		Intersect N. and S. line at the cor. of secs 27, 28, 33 and 34
		Hence I run.
		West on a tiny line bet. secs. 28 and 33.
		Descending
11.00		Enter bottom
11.50		Manning Creek 10 ft. wide 7 ins. deep course S. ascend
22.00		Point of ridge. falls S. descending
28.00		Foot of mountain. enter scattering cedars and
40.00		Set a trachyte 16 x 10 x 6 ins. 11 ins. in the for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face from a cedar 10 ins. diam bears N 30° W 95 lbs. dist. marked $\frac{1}{4}$ sec. 28 B.T.
		A cedar 14 ins. diam bears S 57° 05' W 47 lbs. dist marked $\frac{1}{4}$ sec. 33 B.T.
50.00		Ravine comes S. 20 ft. dep.
60.50		Ravine 20 ft. dep. comes S. ascending
77.00		Top of ridge bears N. and S. descending 20 ft. to
80.00		the cor. of secs. 28, 29, 32 and 33
		Sand broken
		Soil rocky - 4 th rate
		Timber scattering cedars and pines
		Mountainous land 80.00 che.
-		
36.10.		
		West on a random line bet. secs 29 and 32
		Intersect W. bdy. of Tp. 9½ lbs. S. of the cor. of secs. 25, 30, 31 and 36. which is a sandstone 6 x 16 x 10 ins above ground marked and written as described by the surveyor. general. I destroying all marks pertaining to secs. 30 and 31 and mark them for secs 29 and 32
		Hence I run
		58° 51' E on a tiny line bet. secs. 29 and 32
		Descending in scattering cedars and pines
		Ravine course S.W. ascending
52.50		Point of ridge. falls S.W. descending 20 ft. to
54.50		

Subdivision of T. 27 S. R. 2 1/2 W continued

8 a.m.

36.10 The cor. of secs. 28, 29, 32 and 33
Sand broken.

Soil rocky - 4th rate

Limber scattering cedars and pines
Mountainous land 36.10 chs.

N 0° 03' W. bet. secs. 28 and 29

Enter scattering cedars and pines. ascend

2.30 Top of ridge bears N.E. and S.W. descending west

3.25 Ravine comes S.W. ascend gradually

36.45 Road bears N.W. and S.E.

40.00 Set a trachyte 16x8x8 ins. 11 ins in the ground
Jewell sec. cor. marked $\frac{1}{4}$ on W. face. from which
a cedar 6 ins. diam. bears. S 50° 40' E 38 lbs. dist.
marked $\frac{1}{4}$ S. 28 B.T.

A cedar 8 ins. diam. bears N 68° 50' W 48 lbs
dist. marked $\frac{1}{4}$ S. 29 B.T.

75.00 Cross ridge. bears E. and W. descend.

80.00 Set a trachyte 14x8x8 ins. 10 ins in the
ground. in hollow. come W. for cor. of
secs. 20, 21, 28 and 29 marked with 2 notches
on S and 4 notches on E. edges. and raise a
mound of stone 2 ft. base 1 ft. high W. of cor.
Pits impracticable.

A pine 6 ins diam bears N 05° 20' W. 66 lbs
dist. marked T. 27 S. R. 2 1/2 W. S. 20 B.T.

No other bearing trees within limits.

Sand broken

Soil rocky 4th rate

Limber. scattering cedars and pines

Mountainous land 80.00 chs.

East on a random line bet secs 21 and 28

40.00 Set temp. $\frac{1}{4}$ sec. cor

80.00 Intersect N. and S. line at the cor. of secs
21, 22, 27 and 28.

Hence I run.

West on a true line bet secs 21 and 28

Enter scattering cedars and pines ascend.

Subdivision of T. 27 S. R. 2 1/2 W. Continued

- 11.00 Point of ridge. falls. S. descending 300 ft. to
 25.00 Foot of mountain. enter dense sage
 40.00 Set a trachyte 20x11x7 ins. 10 ins in the
 ground for 1/2 acre. cor. marked & on N. face
 and raise a mound of stone 2 ft base 1 1/2 ft.
 N. of cor. Pits impracticable.
 A cedar 8 ins diam bears S 70° 30' E. 170
 ft. the dist. marked 1/4 S. 28 B.T.
 No other bearing trees within limits
 51.40 Creek 1 lk. wide course S. ascending gradually
 70.00 Road. bears N. and S.
 73.00 Top of ridge bears N. and S. enter dense
 76.00 Scraggy dense cedars. enter sage descending
 - 80.00 The cor. of secs 20. 21. 28 and 29.
 Bank broken
 Soil rocky
 Timber. Cedars and pines
 Mountainous land 80.00 chs.

1898

- N 89° 05' W and random line bet. secs. 20 and 29
 36.4 Intersect W. bdy. of sp. 12 like S. of cor. of
 secs. 19. 24. 25 and 30 which is a sandstone
 5x12x12 ins above ground marked and witnessed
 as described by the surveyor
 general. Deleting all marks pertaining to secs 19 & 30 from
 Surveyor's plan 26 & 29
 Shovel 1 run.
 S 89° 40' E on a true line bet. secs. 20 and 29
 Ascending gradually in scattering cedars
 and pines.
 - 36.40 The cor. of secs 20. 21. 28 and 29
 Bank broken
 Soil rocky - 4 th rate
 Timber scattering cedars and pines
 Mountainous land of 36.45 chs.

N 0° 03' W bet. secs. 20 and 21

Ascending 300 ft. in sage brush and scattering
 cedars and pines

9.00 Top of ridge bears E. and W. descending 300 ft.

Subdivision of T. 27 S. R. 2½ W. continued

- ans
 19.80 Gulch, comes W. ascending gradually.
 25.25 Road bears N.W. and S.E.
 40.00 Set a granite 16x8x4 ins. 11 ins in the ground for 1/4 acre cor. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable A cedar 16 ins. diam bears 504000 W 105 lbs. dist. marked 1/4 S. 20 B.T.
 No other bearing trees within limits.
 53.40 Road bears N.W. and S.E.
 80.00 Set a granite 16x8x6 ins. 11 ins in the ground for cor. of secs. 16, 17, 20 and 21 marked with 3 notches on S. and 4 notches on E edges. and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable sand broken.
 Soil rocky - 4th rate
 Limber scattering cedars and pine
 mountainous land 80.00 elev.

East on a random line bet. secs 16 and 21

- 40.00 Set temp. 1/4 acre cor.
 79.96 Intersect N. and S. line at the cor. of secs. 15, 16, 21 and 22.
 Hence I run.
 West on a true line bet. secs. 16 and 21
 Ascend. in scattering mahogany.
 22.00 Top of ridge bears N.E. and S.W. descend.
 39.98 Gulch 50 ft. deep comes W. Set a granite 18x12x6 ins. 12 ins. in the ground for 1/4 acre cor. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.
 Scav. mahogany, enter oaks.
 51.50 Mouth of canon comes S.W.
 58.50 Scav. oaks.
 - 79.96 The cor. of secs. 16, 17, 20 and 21
 Land broken.
 Soil rocky - 4th rate
 Limber mahogany and oaks.

Subdivision of T. 27 S. R. 2 1/2 W. Continued

Mountainous land 79.96. Chs.

- 189°45' W and random line bet. secs. 17 and 20
 36.80 Intersect N. bdy of the 15 lks. N. of the cor.
 of secs. 13, 18, 19 and 24 which is a quartzite
 $6 \times 8 \times 6$ ins above ground. marked and witness'd.
 as described by the surveyor general.
 I destroy all marks pertaining to secs.
 18 and 19, and mark them for secs 17 and 20.
 Thence I run.
 38°54'E. on a true line bet. secs 17 and 20
 Ascend in scattering cedars and pines.
 The cor. of secs 16, 17, 20 and 21
 Sandy broken
 Soil rocky - 4 th rate
 Timber scattering cedars and pines
 Mountainous land 36.80 chs.
 July 11. At this cor. I set off $22^{\circ}53'$ N. on
 the decl. arc. and at 12 m. l. m. t. observe
 the sun on the meridian: the resulting
 lat. is $38^{\circ}28' N$
-
- No°03'W bet. secs 16 and 17
 40.00 Ascend in brush and scattering cedars and pines
 Steeper ascent
 Set a granite $16 \times 8 \times 8$ ins. 11 ins in the ground
 for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face from which
 a cedar 6 ins. diam. bears $316^{\circ} E$ 36 lks. dist.
 marked $\frac{1}{4} S. 16 B. T.$
 A pine 4 ins. diam. bears $118^{\circ} 15' W$ 42 lks dist.
 marked $\frac{1}{4} S. 17 B. T.$
 80.00 Set a granite $16 \times 8 \times 8$ ins. 11 ins. in the
 ground for cor. of secs 8, 9, 16 and 17. marked
 with 4 notches on S. and E. edges and raise a
 mound of stone 2 ft. base 1 ft. high W. of cor.
 Pits impracticable.
 Sandy broken.
 Soil rocky - 4 th rate
 Timber scattering cedars and pines
 Mountainous land 80.00 chs.

Subdivision of T. 27 S. R. 2 $\frac{1}{2}$ W. Continued.

chains	East on a random line bet. secs. 9 and 16
40.00	Set temp. $\frac{1}{2}$ sec. cor.
80.00	Intersect N. and S. line at the cor. of secs 9, 10, 15 and 16 Hence I run.
	West on a true line bet. secs. 9 and 16
11.50	descent Head of canon 400 ft. deep comes S. ascend.
31.00	Cross ridge 500 ft. above canon bears N.E. and S.W.
40.00	Set a granite 12 x 10 x 5 ins 8 ins in the ground for $\frac{1}{2}$ sec. cor. marked $\frac{1}{2}$ on N. face and raised a mound of stone 2 ft. base 1/2 ft. high N. of cor. Pits impracticable.
65.00	Cross ridge 1000 ft. high. comes N.W. and S.E. Descent 1000 ft. to
- 80.00	The cor. of secs. 8, 9, 16 and 17 Land broken Soil rocky - 4 th rate No. timber, Mountainous land 80.00 chs.

$N.89^{\circ}54'W.$ on a random line bet. secs. 8 and 17
37.12 Intersect N. bdy. of Tp. 2 $\frac{1}{2}$ sec. N. of the cor. of
secs. 7, 12, 13 and 18 which is a sandstone
5 x 8 x 8 ins. above ground. marked and
witnessed as described by the surveyor
general. I destroy all marks pertaining to secs 7 & 18 from
old cor. because it places 8-9-17
Hence I run.

$S.89^{\circ}56'E.$ on a true line bet. secs. 8 and 17

15.00 Ascend 800 ft. in scattering mahogany to
East of ^{the} mountain. The cor. of secs. 8, 9, 16 and 17
Land broken.

Soil rocky - 4 th rate

Timber scattering mahogany.

Mountainous land 37.12 chs.

July 11-1897 At this cor. at 5th P.M. I set off $58^{\circ}28'$ in the lat
dec. 22.00 N. in the decl. arc. and determine a line midline with the
 $N.0^{\circ}03'W$ bet. secs. 8 and 9

Ascending 1000 ft. in scattering mahogany

4.50 Point of ridge. falls N.W. descending leaves in any
10.00 Ravine 400 ft. deep comes N.W. ascending

Subdivision of T. 27 S. R. 2 $\frac{1}{2}$ W. continued

- ams
- 18.00 Point of ridge falls N.W. descend
 - 32.00 Gulch comes N.W.
 - 40.00 Set a trachyte 14x8x5 ins. 10 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face, and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
 - 65.40 Enter canon causal W.
 - 66.50 Road bears E. and W.
 - 67.4 Leav canon ascend
 - 80.00 Set a trachyte 14x8x5 ins 10 ins in the ground for cor. of secs. 4, 5, 8 and 9. marked with 5 notches on S. and 4 notches on E. and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
~~and broken~~
 - Soil rocky
 - Timber scattering mahogany
 - Mountainous land 80.00 etc.

1898

- * 40.00 East on a random line bet. secs. 4 and 9 Set temp $\frac{1}{4}$ sec. cor.
- 80.20 Intersect N. and S. lines 23 chs. N. of cor. of secs. 3, 4, 9 and 10.
Hence I run.
 $N 89^{\circ} 50' W.$ on a true line bet. secs. 4 and 9 Ascend 50 ft.
- 2.00 Top of ridge bears N.E. and S.W. descend rocky slide.
- 18.00 Leav slide rock.
- 28.00 Roving comes S.W. ascend in scattering mahogany.
- 40.10 Set a trachyte 16x12x7 ins. 10 ins in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high N. of cor. Pits impracticable
- 70.00 Point of ridge falls. S.W. descend
- 80.20 The cor. of secs. 4, 5, 8 and 9
~~and broken~~
- Soil rocky - 4th rate
- Timber scattering mahogany.

Subdivision of T. 27 S. R. 2 $\frac{1}{2}$ W. continued

Mountainous land 80.20 chs.

July 12: 1898. at this cor. at 8⁴⁵ A.M. C.M.C. I set off 58.29 m.
Lat. and 21° 56' N. on the decl. arc. and determine a horizontal with the clin.
88.956' now a random line bet. secs. 5 and 8

37.35 Intersect N. bdy. of Tp. 12 the N. of the cor. of secs. 1, 6, 7
and 18. which is a quartzite 5x12x6 ins.
above ground. marked and witnessed
as described by the surveyor gen-
eral. I destroy all marks putting to Sec. 6 & 7 from all cor.
marked poles 6x8
Hence I run

East on a true line bet. secs. 5 and 8.

Descending

- 7.10 Durkee creek 2 lps. wide comes S.W. ascending
10.30 Enter bench.
25.00 Road bears N.W. and S.E.
29.00 Road bears N. and S.
31.00 Foot of steep mountain
- 37.35 The cor. of secs. 4, 5, 8 and 9.
Sand broken
Soil rocky - 4th rate
No timber
Mountainous land 37.35 chs.

70° 03' W on a random line bet. secs. 4 and 5

- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.10 Intersect N. bdy. of Tp. 12 the E. of cor. of secs.
4, 5, 28. and 29. as heretofore described.
Hence I run.
50° 03' E on a true line bet. secs. 4 and 5
21.80 Wood road bears N.W. and S.E.
22.90 Top of ridge bears E. and W descending
40.10 Set a granite 18x10x5 ins. 12 ins in the
ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face
and raise a mound of stone 2 ft. base $1\frac{1}{2}$
ft. high. W. of cor. Bits impracticable
50.47 Durkee creek 2 lps. wide comes S.W.
ascending gradually in brush.
56.65 Road bears N.E. and S.W.
61.35 Road bears N.E. and S.W.
67.00 Second to
- 80.10 The cor. of secs 4, 5, 8 and 9

Subdivision of T. 27 S. R 2 $\frac{1}{2}$ W. Continued

Land broken

Soil rocky & poor rate

No timber

Mountainous land 80.100 acs.

8

General Description

This township is all mountainous land and is good grazing land, but is not fit for agriculture.

The eastern part is very rough and broken and impossible to survey.

The timber in this township is scattering cedars, pines, spruce aspen and mahogany, useful only for firewood. There is also some scrub oak and sage brush.

There are a few small streams and springs, also Manning Creek which flows southwest through the township and has a large flow of water which is used for irrigation in T. 28 S. R. 3 W.

All the water in this township is good. There are no settlers in the township. There is no mineral found in the township.

John J. Breckon
Romer M. Early
U.S. Deputy Surveyors.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by

....., United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of

showing the respective capacities in which they acted:

....., *Chairman*.

....., *Chairman*.

....., *Moundman*.

....., *Moundman*.

....., *Axman*.

....., *Axman*.

....., *Flagman*.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted

....., United States Deputy Surveyor, in surveying all those parts or portions of the

..... of the

..... meridian, of which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for

....., *Chairman*.

....., *Chairman*.

....., *Moundman*.

....., *Moundman*.

....., *Axman*.

....., *Axman*.

....., *Flagman*.

'subscribed and sworn to before me this

day of, 189 }



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, United States Deputy Surveyor solemnly swear that, in pursuance of a contract received from United States Surveyor General for hearing date day of 189 , I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of of the meridian, in the of which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for and in the specific manner described in the field notes, and the foregoing are the original field notes of such survey; and should any fraud be detected, I will incur the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor

Subscribed by said and sworn to before me)
this day of 189)

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© SEAL ©
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APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Valdosta, Ga., November 13, 1891.
The foregoing field notes of the survey of *The tract in the Township of West Range 2nd West of the Valdosta River & Middle Creek*
Block 11, executed by *John W. Dickson & Son, A. G. Hart*,

executed by *John W. Dickson & Son, A. G. Hart*, under his contract No. *208*, dated *October 30th*, 1891, having critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Jacob J. B. B. C.

United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in has been correctly copied from the original notes on file in this office.

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Xo. J. B.

4-679.

BOOK A-250

FIELD NOTES

OF THE SURVEY OF THE

South Boundary of Sec. 11, T. 3, R. 22

of the Salt Lake Base and Meridian,
State of Utah.

AS SURVEYED BY

John V. Bricker & Thomas McCarry, United States Deputy Surveyors
under his Contract No. 205, dated April 20th, 1896.

Survey commenced July 1st, 1898

Survey completed July 12th, 1898

6-151

S. B. - (right) 2-21-17

NAMES AND DUTIES OF ASSISTANTS.

J. P. Morrison Chairman

Fred W. Leonard Chairman

Dave Farby Asst. Chairman El Moundman

S. Roy Breckin Chairman

G. Anderson Chairman

J. A. Brattet

Secretary may affidavis Sec. book 175

BOOK A-250

INDEX DIAGRAM.

Township 26-L, Range 12

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19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and _____

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will lay chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we are measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey,

, Chain

, Chain

Subscribed and sworn to before me this _____
day of _____, 189 }



WE, _____ and _____

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey,

, Mound

, Mound

Subscribed and sworn to before me this _____
day of _____, 189 }



WE, _____ and _____

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey,

, Ax

, Ax

Subscribed and sworn to before me this _____
day of _____, 189 }



I, _____, do solemnly swear that I will well and perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

, Flag

Subscribed and sworn to before me this _____
day of _____, 189 }



South Bound

J. 26 S. P. S. 17.

Survey commenced July 12th 1898 with
Burley Mountain transit with solar
attachment. For completed see book 26

12th 1898. at 7^h 10^m A.M. I m. t. I
off 38° 30' on the lat. arc; 21° 57' N. on the
decl. arc; and determine a true meridian
with the Solar. at the cor. to Secs 32 & 33.
as heretofore described. I destroy all
marks pertaining to Secs 32 & 33. and mark
secs 28 & 29.

Hence I now

West along the E. side of sec. 29.

Descend gradually

7.17 Road. bears N. E. N.E.

23.0 Ravine. course W. W. ascend.

29.42 Ridge. bears N. W. E. S. E. descend

37.02 Tho Cor. to Sp. 27. S. R. 2^{1/2} E. S. W. as
heretofore described.

Hence S 89° 55' 27"

39.40 Gulch. course W. ascend.

40.00 Set a sandstone 16x10x5 ins. 11 ins. in the
nd for 1/4 Sec. Cor. marked 1/4 on W. face;

and raised a mound of stone 2 ft. base,
1/2 ft. high. N. of Cor. Bits impracticable

44.20 Ridge. bears N. E. S. descend.

67.00 Gulch. course W. ascend.

77.02 Tho 1/4 Sec. Cor. for Sec. 1. S. 27. S. R. S. W.

which is a sandstone 4x12x8 ins. above
d. marked and witnessed as de-
scribed by the Surveyor General.

- 80.00 Set a granite 18x12x4 ins. 12 ins. in the ground
for Cor. to Secs 29 & 30. marked 3 notches on
E. & 1 notch on W. edges; and raised a mound
of stone 2 ft. base. 1/2 ft. high. N. of Cor.
Bits impracticable.

Land. broken.

Soil. Rocky & Gravelly. 4th nat.

Its Drained.

Mountainous land 80 chs.

outh bound off S. 26. S. R. 3. N.

- ms. 89.55' W. along S. side of Sec. 30.
Enter brush. ascend.
0.92 Point of ridge. bears W. descend.
8.10 Gulch. comes W. about 5 chs. to ravine
W. ascend.
12.90 Point of ridge. bears W. descend.
20.90 Gulch. comes W. about 5 chs. to ravine
ascend. Enter scattering pines & cedars.
24.90 Point of ridge. bears W. descend.
31.92 Descend rocks and boulders.
37.02 Thru cor. to Secs 1 & 2. S. 27. S. R. 3 or.
is a sandstone 6 x 12 x 8 ins. above ground
marked & witnessed as described by the
Surveyor General.
40.00 Set a sandstone 16 x 11 x 7 ins. 11 ins. in
the ground, for 1/4 sec. cor. for Sec. 30.
1/4 on N. face; and raised a mound of
stone 2 1/2 ft. base, 1 1/2 ft. high. N. of cor.
Pits impracticable.
53.90 Foot of steep descent: descend gradually.
77.02 Thru 1/4 sec. cor. for Sec. 2. S. 27. S. R. 3. N. which
is a pine tree 10 ins. in diam. marked &
witnessed as described by the Surveyor General.
88.02 Hollow. comes S. ascend gradually.
89.16 Road. bears N. 34° E.
97.00 Point of ridge. bears W. descend.
- 101.17 Thru the Closing Cor. to Thru 26. S. R. 3 & 1/4 N. which
is a sandstone 6 x 12 x 6 ins. above ground
marked & witnessed as described by the
Surveyor General.
Land. Broken.
Soil. Rocky & Gravelly, & slate.
Timber. Scattering scrub Cedars & pines.
Mountainous land 101. 17 chs.
July 12th 1898. at this cor. I set off 21° 55' N
on the decl. arc; and at 12 h. M. L. m. C. observing
the sun on the meridian, the resulting lat is
38° 30' N.

July 12th 1898.
For General Description, see subdivision of this

J. T. Beckford
Homer McLeary
W. J. Deputy Surveyor

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by John T. Breckon & Sonner M. Early, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the N. Edge of S. 27. T. R. 3. W. M. of Salt Lk. of V. 26. I. R. 3. W. M. of Salt Lk. showing the respective capacities in which they acted:

J. C. Butler A. Morrison, Chainman.
J. B. Morrison Fred M. Leonard, Chainman.
Dave Tarpy, Axman.
Moundman.
Axman.
Moundman.

LeRoy Breckon, Axman.
, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted

John T. Breckon & Sonner M. Early

McCarthy, United States Deputy Surveyor, in surveying all those parts or portions of the N. Edge of S. 27. T. R. 3. W. M. of Salt Lk. of V. 26. I. R. 3. W. M. of Salt Lk.

Lake Baseline meridian, State of Utah, of the Salt Lake Baseline meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Morrison, Fred M. Leonard, Chainman.
J. B. Morrison, J. C. Butler, Chainman.

Dave Tarpy, Moundman.
Oke Salisbury, Axman.
William G. Orton, Flagman.
LeRoy Breckon, Flagman.

scribed and sworn to before me this 21st day of July, 1898.



Sonner M. Early

Notary Public

My Comm. expires Dec. 18th 1901

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

United States Deputy Surveyor,

I solemnly swear that, in pursuance of a contract received from
United States Surveyor General for _____, bearing date of _____
day of _____, 189_____, I have well, faithfully, and truly, in my own
proper person, and in strict conformity with the instructions furnished by the United States Surveyor
General for _____, the Manual of Surveying Instructions, and the laws of the
United States, surveyed all those parts or portions of _____
of the _____
meridian, in the _____ of _____, which are represented in the
foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly
swear that all the corners of said survey have been established and perpetuated in strict accordance with
the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor
General for _____, and in the specific manner described in the field notes, and that
the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer
the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 189_____ }

000000
S E A L

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 13, 1891

The foregoing field notes of the survey of the Sixth Precinct of Township
of Salt Lake, 3rd West of the Salt Lake Branch, Premium
District, _____

executed by *John J. Breckinridge, Surveyor*,
under his contract No. 205, dated *October 20th, 1890*, having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the
surveys they describe, are hereby approved.

Jacob B. Clegg
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in
_____, has been correctly copied from the original notes on file in this office.

United States Surveyor General

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BOOK A-250

No. 8.101

FIELD NOTES

OF THE SURVEY OF THE

Subdivision of S. 26. T. 8. R. 7.

of the Salt Lake Base ^{End} Meridian,
State of Utah

AS SURVEYED BY

*John J. Breckinridge James M. E. G., United States Deputy Surveyor,
 under his Contract No. 208, dated October 20th, 1896*

Survey commenced *July 15th*, 1898

Survey completed *July 16th*, 1898

-101-

*Subs-(High) 16-56-21 1
 Changes - 51-60 1*

Contingent 4-00-62 1

NAMES AND DUTIES OF ASSISTANTS.

A. Morrison Chairman

J. B. Morrison Chairman

Fred. H. Leonard Chairman

J. A. Butler Chairman

Dave Farley Axeman & Moundman

Geo. Salisbury Axeman & Moundman

William Hodges Flagman

LRoy Breckin Flagman

In preliminary affidavits, see book 16

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Volume

#

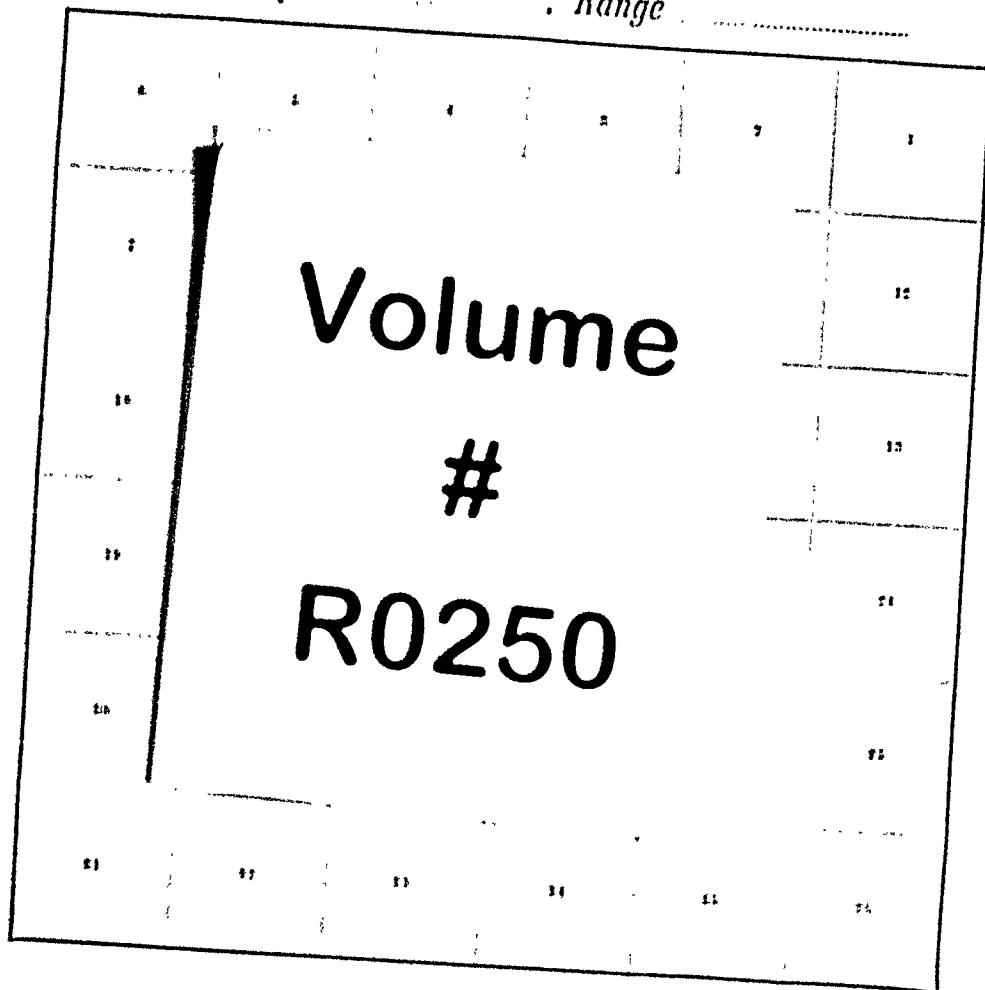
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BOOK A-250

INDEX DIAGRAM.

Township

Range



Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and _____
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will
chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the sa
we will report the true distances to all notable objects, and the true lengths of all lines that we
measuring, to the best of our skill and ability, and in accordance with instructions given us, in the s

_____, Ch
_____, Ch
Subscribed and sworn to before me this _____ }
day of _____, 189 }



WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of moundmen in the establish
of corners, according to the instructions given us, to the best of our skill and ability, in the s

_____, Mou
_____, Mou
Subscribed and sworn to before me this _____ }
day of _____, 189 }



WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of
and other duties, according to instructions given us, to the best of our skill and ability, in the s

_____,
_____,
Subscribed and sworn to before me this _____ }
day of _____, 189 }



I, _____, do solemnly swear that I will well and
perform the duties of flagman according to instructions given me, to the best of my skill and abilit
survey of _____

_____, Fl
Subscribed and sworn to before me this _____ }
day of _____, 189 }



Subdivision of O. T. G. S. P. 297.

Survey commenced July 15th 1898 and executed with a Gurley Mountain Transit at Gurley Surveyor's transit, each with solar attachments.

I examine the adjustments of the transit and correct the level and collimation errors; then to test the solar apparatus, by comparing its indications, resulting from solar observations made during A.M. & P.M. hours, with a true meridian determined by observations on Polaris; I proceed as follows with Mountain Transit.

At the cor. to Secs 29 & 30. on st. bdy. of R.R. as heretofore described. Latitude $38^{\circ} 58' 22''$. long. $112^{\circ} 11' W.$ I set off $58^{\circ} 56'$ on the Lat. arc; and $21^{\circ} 35'$ on the decl. arc; and at $4^{\text{h}} 5^{\text{m}} 10^{\text{s}}$ P.M. Compt and determine with the solar. a true meridian and mark a point thereof on a stone firmly set in the ground 5' chs. N. of the cor.

At $11^{\text{h}} 58^{\text{s}}$ P.M. Compt. I observe Polaris at eastward elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a plug driven in the ground 5' 00 chs. N. of the cor.

July 15th 1898

July 14th 1898. At 6^h A.M. Compt. I lay off the azimuth of Polaris $1^{\circ} 35'$ to the west of the true meridian thus determined by cutting a small groove in the stone set July 13th on which the true meridian falls 0.2 mrs. east of the mark determined by the solar.

At $8^{\text{h}} 10^{\text{s}}$ A.M. Compt. I set off $58^{\circ} 56'$ on the Lat. arc; $21^{\circ} 35' W.$ on the decl. arc; and mark a point in the true meridian determined with the solar. by a cross in the stone already set 5' 00 chs. N. of my station. This mark falls 0.4 mrs. east of the true meridian established by the Polaris observation.

Subdivision of T. 26. S. R. 3. N.Y. Cont'd.

Chains.	The solar apparatus by P.M. & A.M. ob- servations, defines position for true mer- idians, respectively about $0^{\circ}11'$ west and $0^{\circ}21'$ east of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.
42.80	At $8^{\text{h}} 30^{\text{m}}$ A.M. the magnetic bearing of the true meridian is $W 16^{\circ} 0' 5''$ W. the angle thus determined, reduced by the table page 100, gives the mean mag. decl. $15^{\circ} 58' 3''$ E. Knowing it to be impossible to survey the eastern part of this township on account of rough mountains, I begin at the Cor. to Secs 24 & 30. on S. bdg. as heretofore described $N 0^{\circ} 0' 8''$ W. on a random line bet. Secs 24 & 30,
82.78	Set temporary to sec. Cor. Intersect S. bdg. of Sec. 20. at 23.80 chs east of the Cor. to Secs 19, 20, 24 & 30. which is a porphyry stone $4 \times 8 \times 4$ ins. above ground marked & witnessed as described by the Surveyor General. I destroy all marks pertaining to Secs 24 & 30. and at point of intersection.
1.50	Set a trachyte $16 \times 10 \times 8$ ins. 11 ins. in the ground for closing Cor. to Secs 24 & 30. Marked C.C. with 2 grooves on S. and 5 grooves on E. faces; and raised a mound of stone 2 ft. base. 1 ft. ht. high. S. of Cor. A cedar 6 ins. in diam. bears $S 0^{\circ} 4' 50''$ E $103'$ Lhs dist. marked T. 26. S. R. 3. W. 5. 24. B.T. A cedar 6 ins. in diam. bears $S 49^{\circ} 35' 47''$ E Rhs dist. marked T. 26. S. R. 3. W. 5. 30. B.T. Whence I run
9.50	$S 0^{\circ} 0' 5''$ E. bet. Secs 24 & 30.
13.00	Ascend 20 ft. in cedar & pine.
22.50	Lif. of ridge. bears $W. W. E. S. E.$ descend.
27.00	Gulch. 100 ft. dep. course $W. W.$ ascend
30.00	Ridge. bears $W. W. E. S. E.$ descend 40 ft.
40.00	Canyon. course $W. W.$ ascend
	Leave cedar & pine.
	Set a sandstone $16 \times 10 \times 8$ ins. 11 ins. in the

Subdivision of S. 26. T. R. S. W. Continued.

aims

- d for $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$ on N. face; and raised a mound of stone 2 ft. base. 1 ft. high. N. of Cor. Pts impracticable.
- 52.00 Enter cedars & pines.
- 67.20 Ridge 800 ft. above Canyon. bears E & W. descend.
- 78.50 Scarf timber.
- 79.40 Head of ravine. courses N. ascend 150 ft. to
the cor. to Secs 29 & 30.
- Land. broken.
- Soil. Rocky. 4 ft. slate.
- Timber. Scrub cedars & pines.
- Mountainous land 82.78 chs.
-
- Meet on a random line bet. Secs 20 & 30.
from Closing Cor. to Secs 29 & 30.
- 23.80 The cor. to Secs 19 & 20 as heretofore described.
- Thence west bet. Secs 19 & 30.
- 40.00 Set temporary $\frac{1}{4}$ Sec. Cor.
- 63.80 Thru $\frac{1}{4}$ Sec. Cor. bet. Secs 19 & 30. bears N. 25° E.
tho dist.
- 101.67 Intercept N. bdy. of Sp. 45. ths S. of the Cor.
to Secs 19, 24, 25 & 30. which is a sandstone
6x10x8 in. above ground. marked and
witnessed as described by the Surveyor
General.
- Thence I run
S 89° 40' E. on a line line bet. Secs 14 & 30.
- Enter scattering scrub cedars & pines. descend
County road. bears N. E. & S. W.
- 6.10 Dry wash 20 chs wide. 3 ft. deep. courses N. E.
thence along N. slope
- 37.87 Thru old $\frac{1}{4}$ Sec. Cor. for Secs 19 & 30. which is
a trachyte 6x11x7 in. above ground. marked
and witnessed as described by the Surveyor
General. I destroy all marks pertaining to
Sec. 30.
- 48.10 Point of ridge. 50 ft. high. falls N. descend,
set a trachyte 14x8x6 in. 9 in. in the
ground for $\frac{1}{4}$ Sec. Cor. for Sec. 30. marked $\frac{1}{4}$
on N. face; and raised a mound of stone
- 61.67

Subdivision of S. 26. T. R. 3. M. Contn

	name	
61.62	2 ft. base, 1 1/2 ft. high. N. of Cor. Pits impracticable Wood road. bears N. W. & S. E.	
70.02	Wood road. bears N. W. & S. E.	
76.10	Bottom of Canyon. course N. W. ascend.	
77.87	The cor. to Secs 19 & 20. Thence	
	On a true line bet. Secs 20 & 20.	
94.57	Ridge. bears N. W. & S. E. descend	
97.30	Gulch 50 ft. deep. course N. W. ascend.	
101.00	Point of ridge. bears N. W. descend to	
101.67	The Closing Cor. to Secs 29 & 20. Land broken. Soil. Rocky & Granular & shale. Timber. Scrub Cedars & pines. Mountain land 101.67 chs	
	From the Cor. to Secs 4. 5. 28 & 29. on S. side, of Ap. as heretofore described.	
	name	
	90.03 N. bet. Secs 28 & 29.	
	descend	
3.50	Road. bears N. W. & S. E. enter dense brush	
14.25	Creek 4 lks wide. 5 ins. deep, in Canyon. course W. ascend.	
19.00	Road. bears N. E. & S. W.	
26.00	Ridge bears E. & W. descend 200 ft.	
30.60	Creek 4 lks wide. 4 ins. deep in bottom of Ravine. course N. bears brush. ascend in scattering cedars & pines.	
42.80	Set a granite 18 x 10 x 5 ins. 12 ins. in the ground for 1/4 sec. Cor. marked 1/4 on N. face, and raised a mound of stone 2 ft. base 1 1/2 ft. high. N. of Cor. Pits impracticable	
43.50	Top of ridge. bears E. & W. descend	
48.00	Gulch 200 ft. deep. course N. ascend 800 ft.	
70.00	Ridge. bears E. & W. descend 400 ft.	
77.00	Head of gulch. course N. ascend	
82.80	Set a Granite 16 x 10 x 8 ins. 11 ins. in the ground for cor. to Secs 20. 21. 28 & 29. marked 2 notches on S. & 4 notches on E. edges; and raised a mound of stone 2 ft. base, 1 1/2 ft.	

Subdivisions of T. 26. S. R. 3. N. W. Continued

high. Ht. of Cor. Pts impracticable.
Land. broken.
Soil. Rocky. 4' thali.

Timber. Scattering scrub cedar & pines.
Dense brush on 27.10 chs.
Mountainous land 82.80 chs.

14:1898. At this cor. I set off 21° 37' V
on the decl. arc; and at 12^h m. l.m.b.
observed the sun on the meridian, the
resulting lat. is 38° 31' N.

West on a random line bet. Secs 20 & 29.
40.00 Lot. temporary 1/4 sec. cor.

55.60 The old 1/4 sec. cor. to Secs 20 & 29. on line.

80.10 Intercept the Closing Cor. to Secs 27 & 30,
thence I run

East on a true line bet. secs 20 & 29.

Enter scattering cedar & pine. descend.

0.55 Road, bears N. W. E. S. E.

6.75 Bottom of ravine, course N. W.

7.90 Ditch 5 ft. wide, 6 in. dep. course N. W.

10.20 Wood road, bears N. W. S. S. E. ascend.

16.50 The 1/4 sec. cor. which is a tract to 5x10x
5 in. above ground, marked & witnessed
as described by the Surveyor General.
I destroy all marks pertaining to Secs.

28.50 Ridge. bears N. W. S. S. E. descend.

32.00 Head of gulch, 50 ft. dep. course N. W.
ascend.

40.05 Lot a granite 18x12 x 4 in., 12 in. in the
d for 1/4 sec. cor. marked 1/4 on N.

face, and raised a mound of stone 2';
base. 11 ft. high. Ht. of Cor. Pts impracticable
ascend steep mountain 1000 ft. to

50.10 The cor. to Secs 20.21.28 & 29.
Land. broken.

Soil. Rocky. 4' thali.

Timber. Scattering scrub cedar & pines.
Mountainous land 80.10 chs.

Subdivisions of U. S. G. P. 3 M. Cont'd

Chain:	No. 03 W. bel. Secs 20 & 21.
	Ascend 600 ft. in scattering cedar & spruce over lower rocks & boulders.
40.00	Lop. of ridge, bears N. W. E. & S. E. leave cedar & spruce descend.
52.00	Enter scattering spruce
40.00	Set a granite 16x10x6 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. Cor. marked N. and W. faces, and raised a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high. W. of Cor. Pits impracticable.
40.00	Dulch. 600 ft. Below ridge comes N. W. leave spruce, enter scattering cedar, ascend 200 ft.
53.25	Lop. of ridge, bears N. W. E. & S. E. leave cedar descend.
58.00	Enter scattering spruce, cedar & spruce.
- 80.00	Set a granite 16x12x7 ins. 11 ins. in the ground, for cor. of secs 16, 17, 20 & 21 marked 3 notches on S. & 4 notches on E. edges; and raised a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high. W. of Cor. Pits impracticable.
	On point of rocks 30 ft. high, 15 lbs wide, bearing E.
	Land. broken.
	Soil. Rocky, 4' slate.
	Timber. scattering cedar, pine & spruce.
	Mountainous land 80 chs.

	West on a random line bel. Secs 17 & 20.
62.50	Intersect 9 Chs S. of the $\frac{1}{4}$ sec. cor. bel. Secs 17 & 20. which is a trachyte 6x7x6 ins. above ground marked and witnessed as described by the Surveyor General.
	Thence I. run.
	59.50 E. on a true line bel. Secs 17 & 20.
	Ascend gradually in scattering cedar & spruce
7.00	Foot of steep mountain, ascend 800 ft. to
34.00	Lop. of ridge, bears N. W. thence along N. slope
59.00	Descend 150 ft. to
62.50	The cor. to Secs 16, 17, 20 & 21
	Land. broken.
	Soil. Rocky, 4' slate.

ubdivision of S. 26. T. R. S. M. Continued.

- aino Limber, scattering scrub cedars & pines.
Mountainous land 62.55 chs.
- 11.00 $70^{\circ} 03' W.$ bel: Secs 16 & 17.
Enter scattering spruce & mahogany. descend
500 ft.
- 12.00 Enter bottom of Dry Canon. Course N.
Leave spruce & mahogany.
- 12.70 Canon road. bears E. $E \frac{1}{2} W.$
- 13.10 Creek 8 lbs. wide, 6 ins. deep. flows N. enter
scattering cedars & pines. ascend steep side
of Canon.
- 14.00 Set a granite 17 x 11 x 5 ins. 12 ins. in the ground
for $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$ on W. face; and raised
a mound of stone 2 ft. base, $\frac{1}{2}$ ft. high.
W. of Cor. Pits impracticable.
- 15.00 Cross shallow, course S. W.
- 15.00 Ridge 1000 ft. above creek. bears N. E. $E \frac{1}{2} S.$.
descend.
- 16.00 Set a granite 16 x 14 x 11 ins. 11 ins. in the
ground for $\frac{1}{4}$ Cor. to Secs 16 & 17 marked C.C.
on S. with 4 grooves on S. Ed E. faces;
and raised a mound of stone 2 ft. base,
 $\frac{1}{2}$ ft. high. S. of Cor. Pits impracticable.
Land broken.
- Soil Rocky. 4 th soil.
- Limber. Scattering Cedars & pines.
Mountainous land 80 chs.

- 17.50 $89^{\circ} 55' W.$ on a random line bel: Secs 9 & 17.
Intersect 3 lbs W. of Cor. to Secs 8. 9. 16 & 17 which
is a porphyry 6 x 7 x 6 ins. above ground marked
as witnessed as described by the Surveyor
General. I destroy all marks pertaining to Secs 16 &
17 hence I now
Cast on a true line bel: Secs 9 & 17.
Descend in scattering cedars & pines.
- 18.00 Ravine. course S. W. ascend.
- 19.50 Th Cor. to Secs 16 & 17.
Land broken.

Subdivision of T. 26 S. R. 3. W. Continued.

Rocky. 4th ratio.
Timber, scattering cedar & spruce.
Mountainous land 21.50 acs.

- " 8.
 15° 18' 98. At 7 A.M. m.t. I set off 38° 50' on
 Lat. arc; 21° 30' N. on the decl. arc; and determined a
 true meridian with the solar. at the cor. to
 3.4.27 8/28. on S. bdy. of Lp. as heretofore described.
 Thence I run
 No. 02 N. bet. decs 27 8/28.
 Ascend gradually
 7.00 Ridge. bears E. 87° N. descend.
 8.00 Enter aspens.
 13.00 Ravine. course N. ascend.
 13.50Leave aspens
 26.50 Enter aspens.
 33.00Leave aspens.
 40.00 Ridge. bears N. E. 87° S. W. descend. Entering
 42.80 Set a granite 16x12x8 ins. 11 ins. in the ground
 1/4 sec. cor. marked 1/4 on W. face; from which
 On aspen 12 ins. in diam. bears S 33° 37' E. 20° N.
 Dist. marked 1/4 S. 27. 13. T.
 On aspen 10 ins. in diam. bears S 23° 45' W. 54°
 Obs. dist. marked 1/4 S. 28. 13. T.
 44.80 Bluff 15 ft. high, bears E. 87° N. descend.
 57.00 Hollow. course N. E. leave timber ascend.
 67.00 Ridge. bears E. 87° N. descend.
 70.00 Enter spruce & aspens.
 - 82.80 Set a granite 16x12x6 ins. 11 ins. in the ground
 cor. to decs 21.22.27 8/28 marked 1 notch
 on S. and 3 notches on E. edges; and raise
 a mound of stone 2 ft. base. 1 1/2 ft. high.
 N. of cor. pits impracticable.
 A spruce 14 ins. in diam. bears S 34° 45' E. 52°
 Obs. dist. marked T. 26. 5. R. 3. W. S. 27. 13. T.
 A spruce 6 ins. in diam. bears S 34° 30' W. 50° N.
 Dist. marked T. 26. 5. R. 3. W. S. 28. 13. T.
 No other bearing trees within limits.
 and broken. Soil. Rocky. 4th ratio.
 aspens & spruce.
 Mountainous land 82.80 acs.

Subdivisions of T. 26. S. R. 5. W. Continued.

	West on a random line bet. Secs 21 & 28.
40.00	Set temporary $\frac{1}{4}$ sec. cor.
79.96	Intersect N. E. S. line at Cor. to Secs 20, 21, 28 July 29.
	Thence I run
	East on a true line bet. Secs 21 & 28.
	Ascend in scattering Cedars & pines.
4.00	Ridge. bears N. W. & S. E. leave cedar & pines.
	Ascend gradually along N. slope, leave timber,
39.98	Set a lava stone 20x8x6 in. 15 in. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face; and raise a mound of stone 2 ft. base.
50.00	$\frac{1}{2}$ ft. high. N. of Cor. Pits impracticable. Top of high ridge of mountain, bears N. W. & S. E. descend gradually.
57.00	Enter spruce & aspen.
60.00	Leave timber.
61.00	Cross point of ridge, bears N. E. descend 500 ft.
79.96	The cor. to Secs 21, 22, 27 & 28. Land. broken.
	Soil. Rocky, 4 ft. slate.
	Timber. pine, Cedar, Spruce & aspen.
	Mountainous land 79.96 ch.
	July 15-1898. At this Cor. I set off 21° 27' N on the decl. arc; and at 12 ^h 12 ^m 12 ^s A.M. to observe the sun on the meridian, the resulting lat. is 38° 51' N.

	No: 02 N. bet. Secs 21 & 22.
	Enter scattering spruce & aspen. descend along N. side of ravine.
7.00	Leave timber.
12.00	Descend steep side of Canon, over loose rocks and boulders. in scattering spruce and mahogany.
40.00	Set a granite 12x12x5 in. 8 in. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face; and raised a mound of stone 2 ft. base, $\frac{1}{2}$ ft. high. N. of Cor. Pits impracticable.
66.00	Bottom of Dry Canon. 1000 ft. below sec. cor. Courses N. W.

Subdivisions of T. 26. S. R. 3. W. Continued.

- 66.10. Canon road. bears N. W. & S. E.
- 68.00. Creek 10' th. wide, flows N. W. ascend side of Canon.
- 80.00 Set a granite 14x8x6 ins. 9 ins. in the ground for cor. to Secs 15-16. 21 1/2 22. mark 26. S. on N. E. E.
3. W. on S. E. faces; with 3 notches on S. E. edges; and raises a mound of stone 2 ft. base. 1 ft. high. N. of Cor. It's impractical. Land. broken.
- Soil. Rocky. 4th rate.
- Timber. Scattering spruce, aspens & mahogany. Mountainous land 80 chs.
1. on a random line bet: Secs 16 & 21, set temporary 1/4 sec. cor.
- 50.00 Intersect H. & S. line 23' th. S. of Cor. to Secs 16-17-20 & 21, thence 4 runs
- \$84° 60' E. on a true line bet: Secs 16 & 21, descending scattering spruce & mahogany. Top. of bluff 40 ft. high. descend
- 0.40 rocky gulch 200 ft. deep. comes N. ascend.
- 3.50 rocky point of ridge, falls N. thence along S. side of Canon.
- 9.00
- 40.00 Set a granite 18x12x6 ins. 12 ins. in the ground for 1/4 sec. Cor. marked 4. on N. face; and raises a mound of stone 2 ft. base. 1 ft. high. N. of Cor. It's impracticable.
- 64.00 Bottom of Dry Canon. comes N. W.
- 64.50 Creek 10' th. wide. flows N. W.
- 66.00 Canon road. bears N. W. & S. E. ascend 100 ft.
- 80.00 The cor. to Secs 15-16-21 & 22, Land. broken.
- Soil. Rocky. 4th rate.
- Timber. scattering spruce & mahogany. Mountainous land 80 chs.

No. 02 N. bet: Secs 15-21.

Ascend 300 ft. in scattering cedars & pines,

ubdivision of S. 26 d. R. 5. M. Continued.

- 27.00 Top of steep ascent. ascend gradually.
40.00 Set a trachyte 18x8x6 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face; and raised a mound of stone 2 ft. base, 1 ft. high. W. of Cor. Pits impracticable.
54.00 Ridge 300 ft. above canon. bears N.E. $\frac{1}{2}$ E.
descend.
80.00 Set a trachyte 14x8x6 ins. 10 ins. in the ground for cor. to secs 9, 10, 15 & 16. marked notches on S. & $\frac{1}{2}$ S. notches on E. edges; and raised a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high. W. of Cor. Pits impracticable. Land. broken.

Soil. Rocky. 4 ft. calc.

Timber. Scattering cedar & pines.
Mountainous land 80. chs.

- 118 $^{\circ}$. 50' W. on a random line bet. secs 9 & 16.
40.00 Set temporarily $\frac{1}{4}$ sec. cor.
80.10 Intercept 3 chs. S. of closing cor. to secs 16 & 17.
thence I run
118 $^{\circ}$. 49' E. on a line line bet. secs 9 & 16.
Ascend gradually in scattering cedar & pines.
32.00 Ridge. 300 ft. above sec. cor. falls W. descend.
36.00 Gulch. canon W. W. ascend
40.05 Set a trachyte 15x10x10 ins. 10 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face; and raised a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high. W. of Cor. Pits impracticable.
78.50 Top of ridge. bears N. $\frac{1}{2}$ E. descend.
80.10 The cor. to secs 9, 10, 15 & 16.
Land. broken.
Soil. Rocky. 4 ft. calc.
Timber. Scattering cedar & pines.
Mountainous land 80.10 chs.

16-18

; As it is in to survey the eastern part of this township in the regular manner, on account of high rough mountains, I run.

Subdivisions of S. 26. T. R. S. W. Continued.

East. bel: secis 10 & 15: on true line
Descend.

18.00 Ravine. course N. W. ascend.

28.00 Ridge. 100 ft. high. bears N. W. & S. E. ascend
along N. slope.

40.00 Set a trachyte 20x12x7 mos. 15 mos. in the
ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face;
and raise a mound of stone 2 ft. base.
1 $\frac{1}{2}$ ft. high. N. of Cor. Pits impracticable,
I discontinue this line on account of
high. rough. mountains.

Land. broken.

Soil. Rocky. 4th rate.

No timber.

Mountainous land 40. chs.

16" 1898, Ad. 9-05 = A. M. C. m. b. I set off 38°
33' in the lat. arc. 21.18' N. on the decl. arc.
determine a true meridian with the solar.
the cor. to Secs 9. 10. 15 & 16.

thence I run

No. 02 W. bel: secis 9 & 10.

Descend along E. slope of ridge.

22.00 Cross ridge. bears N. E. descend rapidly.

40.00 Set a trachyte 14x7x6 mos. 10 mos. in the ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face; and raise
a mound of stone 2 ft. base. 1 $\frac{1}{2}$ ft. high.
W. of Cor. Pits impracticable.

44.00 Buck Canon. course N. W. ascend.

46.00 Enter scattering cedars & pines.

50.00 Point of ridge 150 ft. high. falls N.

53.00 Ravine. course S. W. ascend 200 ft.

73.00 Ridge. bears E. & N. descend.

- 80.00 Set a trachyte 20x8x6 mos. 15 mos. in the
ground for cor. to Secs 5. 4. 9 & 10. marked 5
on S. & 3 notches on E. edges; and raised a
mound of stone 2 ft. base. 1 $\frac{1}{2}$ ft. high. W.
Cor. Pits impracticable.

Land. broken.

Soil. Rocky. 4th rate.

Timber. Scattering Cedars & pines.

ubdivisions of S. 26. S. R. 3. N. W. Continued.

Mountainous land 80 chs.

- 61.15 N. 89° 49' W. on a random line bet. secs 4 & 9.
Intersect 4 lks N. of the $\frac{1}{4}$ Sec. Cor. bet. secs 4 & 9. which is a trachyte $6 \times 10 \times 5$ ins. above
ground. marked and witnessed as de-
scribed by the Surveyor General.
Thence I run
S 89° 57' E. on a true line bet. Secs 4 & 9.
Ascend gradually along W. side of Birch
Cañon, in scattering cedars.
22.00 Hollow courses S. W. about 2 chs. into Birch Cañon.
30.00 Leave hollow, ascend steep hillside.
61.15 The cor. to Secs 3. 4. 9 & 10.
Land. broken.
Soil. Rocky, 4 ft. rate.
Timber. Scattering cedars.
Mountainous land 61.15 chs.
July 16th 1898. At this Cor. I set off 21° 17' W.
on the decl. arc; and at 12th M. C. m. to observe
the sun on the meridian, the resulting
lat. is 38° 33' N.
- 15.00 N. 02° W. bet. secs 8 & 4. on true line
descend in scattering cedars & pines.
Hollow. Courses N. leave cedars & pines.
ascend.
30.00 Ridge. bears N. E. & S. W. descend.
40.00 Set a trachyte $14 \times 10 \times 4$ ins. 10 ins. in the
ground for $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$ on W. face;
Examined a mound of stone 2 ft. base. 1 ft.
high. N. of Cor. Site impracticable.
57.00 Ravine. courses N. W.
59.50 Road. bears N. 15° W & S. 15° E.
61.00 Dry wash. 15 lks wide. course N. W. ascend
Intersect the Fifth Standard Parallel S.
at 27.80 chs. E. of the standard Cor. to Secs
33 & 34. S. 25. S. R. 3. N. W. which is a trachyte
 $8 \times 13 \times 11$ ins. above ground. marked & witnessed
as described by the Surveyor General.
Set a trachyte $16 \times 11 \times 4$ ins. 11 ins. in the

Subdivision of St. 26 S. R. 3. N. Continued

June

ground for Closing Cor. to bear S 84° W. marked C. Cor. S. with 3 grooves on E. S. W. face, & raised a mound of stone 5 ft. base 2 ft. high. E. of Cor. Pits impracticable Land broken.
Soil. Rocks. 4% slate.
Timber. Flattening cedar 2' prines.
Mountainous land 80-80 ch.

July 16th 1895

In examining the adjustment of the mountain transit, and correct the level and collimation errors; then to test the solar apparatus, by comparing its indications, resulting from solar observation made during A. M. and P. M. hours with a true meridian determined by observation on Polaris. I proceed as follows;

At the Closing Cor. to bear S 84° W. as heretofore described. Latitude 38° 34' N. Longitude 112° 16' W. I set off 30° 34' on the decl. arc, 21.15 ft. on the decl. arc; and at 4 h 50 m P. M. I next determine with the solar a true meridian, and mark a point thereof on a stone firmly set in the ground, 5 ch. E. of the cor.

at 11 46th P. M. from E. I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined on a peg driven in the ground 5 ch. N. of my station.

July 16th 1895

July 17th at 7 h A. M. from E. I lay off the azimuth of Polaris 1:55' to the west, and mark the true meridian thus determined by cutting a small groove in the stone set July 16th; in which the true meridian falls 2' in each of the quadrants determined by the solar. At 7 h 50th A. M. from E. I set off 30° 34' on the decl. arc; and 5 ch. N. the distance, and

Subdivisions of T. 26. S. R. 3. M. Continued.

mark a point in the true meridian determined with the solar, by a cross on the stone set 5. chs. N. of my station; this mark lies 0.3 mrs. east of the true meridian by the Polaris observation.

The solar apparatus by P.M. & Q.M. observations, defines positions for true meridians, respectively about 0.11° west and 0.16° east of the meridian established by the Polaris observations; therefore I conclude the adjustments of the instrument are satisfactory.

Note: We discontinued the subdivision of this township, as it is impossible to complete the survey by the usual methods of surveying, on account of rough mountains, with deep canons and gulches leading near Monroe Peak on the east boundary of the township.

We were also compelled to abandon parts of T. 28 S. R. 5. 2 1/2 M. W. T. 27 S. R. 2 1/2 M. E. T. 26 S. R. 2. M. embraced in this contract, on account of rough mountains and precipitous canons.

General Description.

The land embraced in our survey in this township is all mountainous, unfit for agricultural purposes, but a part of it is good grazing.

One canon which has a good sized stream of pure, clear water runs north westerly

Subdivision of S. 26. T. R. 3. W. Continued.

in Secs 16, 17, 21 & 22. is taken by a ditch from the mouth of the Canon to irrigate land in Sec. 33. S. 26. T. R. 3. W.

There is also a small ditch in Secs 20 & 21 which carries water from Durkee Creek in S. 27. S. R. 2d W. to land under cultivation in Sec. 18. of this township.

There are no settlers within the limits of our survey nor on the part unsurveyed.

There is no mineral found in the Chas Anderson & C. A. Peacock, applicants for survey could not be found.

John J. Breckon
James M. Early
U. S. Deputy Surveyors.

Resurvey of Subdivision of T. 26 S. R. 3. N.

rain

From the cor. to secs 19 & 20 as heretofore described

I run

North on a resurvey line bet. secs 19 & 20

40.05 The $\frac{1}{4}$ sec. cor. bears E. 51 deg. dist.

80.10 The cor. to secs 17, 18, 19 & 20. bears E. 103 deg.

The true course of this line therefore is
 $90^{\circ} 44' E.$ and the distance 80.11 chs.

North on a resurvey line bet. secs 17 & 18

40.00 The $\frac{1}{4}$ sec. cor. bears E. 48 deg. dist.

80.00 The cor. to secs 7, 8, 17 & 18. bears E. 96 deg. dist.

The true course of this line therefore is
 $90^{\circ} 41' E.$ and the distance 80.01 chs.

From the Cor. to sec 8 & 9. as heretofore described.

I run

North on a resurvey line bet. secs 8 & 9.

40.00 The $\frac{1}{4}$ sec. cor. on line.

80.00 The cor. to secs 4, 5, 8 & 9.

North on a resurvey line bet. secs 4 & 5.

40.30 The $\frac{1}{4}$ sec. cor. bears W. 28 deg. dist.

80.50 The Closing cor. to secs 4 & 5. bears W. 65 deg.

The true course of this line is $W. 24^{\circ} W.$
the dist. 80.50 chs.

John J. Breckinridge
Homer M. Leary
U. S. Deputy Surveyors.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by John J. Breckon & Sonner M. Cart, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of Subdivision of C. 2d S. R. 2d W. of C. 26. S. R. 3. N.W. 1/4 of section 18, 1/4 mile E. of Rockwood, U.R. showing the respective capacities in which they acted:

A. Morrison Chammon Fred H. Leonard, Chainman.
J. B. Morrison Chammon J. A. Butler, Chainman.
Dave Tarpay, Moundman.
Oke Salisbury, Moundman.
Dave Tarpay, Axman.
Oke Salisbury, Axman.
William Hodges & LeRoy Breckon, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John J. Breckon & Sonner M. Cart, United States Deputy Surveyor, in surveying all those parts or portions of the Subdivision of C. 2d S. R. 2d W. of C. 26. S. R. 3. N.W. 1/4.

Lake Band of meridian, State of Utah, of the Salt, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

A. Morrison Fred H. Leonard, Chainman.
J. B. Morrison J. A. Butler, Chainman.
Dave Tarpay, Moundman.
Oke Salisbury, Axman.
William Hodges, Flagman.
Le Roy Breckon, Flagman.

Subscribed and sworn to before me this 21st day of July, 1898.



Sonner M. Cart
Notary Public

My license expires Dec 18th 1901

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

We, John J. Beckford & Horace M. Clancy, United States Deputy Surveyors, solemnly swear that, in pursuance of a contract received from George W. Snow, United States Surveyor General for Utah, bearing date October 1st, 1896, we have well, faithfully, and truly, in proper persons and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the law of the United States, surveyed all those parts or portions of Sp. 30 S. R. 2. 25° 3' W. - Sp. 29 S. R. 2. 25° 3' W. - Sp. 28 S. R. 1. 2. 25° 4' 30" W. - Sp. 27 S. R. 1. 2. 25° 4' 30" W. - Sp. 26 S. R. 1. 2. 25° 3' W. and the 6th Meridian Parallel south to 34° 2' 30" W.

... of the State of Utah, meridian, in the State of Utah, which are represented by the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah, and in the specific manner described in the field notes, and the foregoing are the original field notes of such survey; and should any fraud be detected, I will incur the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

John J. Beckford
Horace M. Clancy

United States Deputy Surveyor

Subscribed by said John J. Beckford and Horace M. Clancy, and sworn to before me this 10th day of October, 1896.

666666
S. M. A. 3
666666

Jacob T. B. Lacy
U.S. Surveyor General

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Washington, D. C., March 13, 1897.

The foregoing field notes of the survey of the subdivision of Township 2^d North, Range 3 West of the 6th Meridian, U. S. A. and Macmillan, Utah,

executed by John J. Beckford & Horace M. Clancy, under contract No. 1205, dated October 1st, 1896, having been critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Jacob T. B. Lacy

United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____ has been correctly copied from the original notes on file in this office.

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BOOK A-250

FIELD NOTES

OF THE SURVEY OF

The
 Subdivision
 of
 Township No. 24 South,
 Range No. 1 West,

Of the Salt Lake Base and Meridian,

In the State of Utah.

AS SURVEYED BY

Hubert D. Page and George C. Swan, United States Deputy Surveyors
 Under Contract No. 709, dated December 26th, 1896.

Survey commenced June 1st, 1897.

Survey completed August 10th, 1897.

(1310-2,000)

m. obs. 0.00
 Subs. Light 38-30-10 ✓

for hire Running S. Boundary 4-0-8-39 ✓

Retirement Contract 1-00-03 ✓

Names and Duties of Assistants.

James M. Lentz. Chairman

James Holdaway Chairman

Douglas A. Swango chairman

David A. Snodgo. Chairman

James M. Lentz. Moderator

James Holdaway moderator

James William Ashburn Charles A. Barnes ^{Adviser} Magistrate

Insubordinate affidavits see last page

Volume

#

R0250

BOOK A-250

INDEX DIAGRAM.

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Meanders Page

Preliminary Oaths of Assistants.

Mr,

I do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level ground, set out and true survey and plumb the tally pins either by sticking or dropping the same so as to ascertain the true distance between objects, and the true lengths of all lines that we assist in setting out the best of our skill and ability, and in accordance with instructions given us in the survey

, Chain

Say the Land known to before me this

day of

189

Mr,

I do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corn fields according to the instructions given us, to the best of our skill and ability, in the survey of

, Mound

Say the Land known to before me this

day of

189

Mr,

I do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corn fields according to the instructions given us, to the best of our skill and ability, in the survey

, Axe

Say the Land known to before me this

day of

189

I, do solemnly swear that I will well and truly perform the duties of a flagman according to instructions given me, to the best of my skill and ability in the survey of

, Flagman

Say the Land known to before me this

day of

189

Resurvey of the S. bdy. of T. 24 S., R. 1 W.

Note - On account of the error discovered in the South-boundary of T. 24 S., R. 2 W. We concluded in order to eliminate as many fractional areas as possible to first survey the S. bdy. of T. 24 S., R. 1 W. prior to T. 24 S., R. 2 W.

Survey commenced June 17, 1897, and executed with the instruments described in book A. and B. page 1.

Plan to test the solar azimuth by comparing it to indications resulting from solar observations made during a m. and p.m. hours, with a true meridian determined by observation on Polaris, N. proceed as follows:

At the established post of sec. 2, 3, 35 and 36 S. bdy. T. 24 S., R. 1 W., Lat. $38^{\circ}41'N$, Long. $111^{\circ}06'E$ " which is a trachyte stone $6 \times 16 \times 12$ in. above the ground marked and witnessed as described by the Surveyor General.

The az. off $38^{\circ}41'N$. on the lat. are: $23^{\circ}26'N$. on the east are; and at 8 p.m., L. m.t., determine, with the solar, a true meridian and mark a small stone of our station firmly set in the ground abt. 2 ft. N. of the other.

June 17, 1897.

June 18th 1897, at 1 hr. 38 m. a.m. l. m.t., We observe Polaris wh solar elongation in accordance with J. C. Manning's observations and mark a point in the line thus determined by a stone driven in a stake firmly set in the ground abt. 5 ft. N. of our station.

At 6 a.m. l. m.t. We lay off the azimuth of Polaris $1^{\circ}35'$ to the west, the true meridian thus determined falls on

Proceedings of the S. body of T. 24 S. R. 14.

The parish determined by p.m. solar observations June 17th.

June 18. At 7. A.M. L. M. T. We set off 38° 41' N. on the lat. arc; 23° 27' N. on the decl. arc; and determine a true meridian with the polar which falls on the parish set on the True meridian established by Polaris observations.

The solar apparatus by p.m and a.m. observations defines the position of the True Meridian established by Polaris observations.

Therefore we conclude the adjustments of the instrument are satisfactory.

Owing to local attractions we can get no satisfactory magnetic readings.

Preliminary to commencing the subdividing of this township. We run neck on a blank line on the south boundary of sec. 34; at 40.00 chs. after diligent search no trace of old 1/4 sec. cor. can be found and at 84.20 chs. we find the cor. of secs. 3. & 33 and 34. S. 4.76 chs. dist.
Hence we run.

Neck on the south boundary of sec. 33. at 40.00 chs. after diligent search no trace of old 1/4 sec. cor. can be found, and at 81.52 chs. we find the cor. of secs. 4. 5. 32 and 33. L. 0.50 chs. dist.
Hence we run.

Neck on the south boundary of sec. 32. at 40.10 chs. We find the 1/4 sec. cor. N. 0.36 chs. dist. and at 80.96 chs. the cor. of secs. 5. 6. 31 and 32. N. 70 chs. dist.

1. . . . of the S. . . . of R. 24 S., T. 11 N.

Hence we run

West on the south boundary of sec.
31; at 24,000 obs. after diligent search
no old $\frac{1}{4}$ sec. cor. can be found, and
at 81,64 obs. intersect N. and S. line
2,75 obs. N. of the cor. of Pps. 24 and
25 S., R. 11 and 2 N., as we find no
part of the N. bdy. of R. 25 S., R. 11 N.
alignment, and that many of
the cor. are obliterated, and has a
25 S., R. 11 N. has been subdivided,
therefore, in accordance with
the Manual of Instructions, page
73, we recurvey the township line
between them as follows:

June 18th 1897.

19:1897.

At 7 a.m. l. m.t. we set off
38° 41' N. on the lat. arc. 23° 28' N. on the
decl. arc. and determine a true mer-
idian with the solar at the cor.
of Pps. 24 and 25 S., R. 11 and 2 N.,

We calculate our return, correct and
allowing for proportional measurements
we run

N. 88° 0' 5" E. along N. bdy. sec. 6,
descend through talus and asphalt
oil stony.

9.00 Wood road, bears N. W. and S. E.
ascend over rolling land.

36.00 Top of ridge bears S. and N. Descend,
old cor. can not be found reestablish $\frac{1}{4}$ sec. cor. as follows:
41,6.9 Set a trachyte stone 18 x 9 x 8 in., 12 in.
in the ground for $\frac{1}{4}$ sec. cor. for
sec. 6, R. 25 S., R. 11 N. marked $\frac{1}{4}$ on

S. face and raise a mound of stones
2 ft. base 1 $\frac{1}{2}$ ft. high S. of cor. Pit imprac-
ticable, after diligent search no
trace of old $\frac{1}{4}$ cor. can be found,

Resurvey of the S. boundary of P. 24 S. R. 1 N.

	Chains.	
48.04	Set a trachyte stone 16x10x9 in., 12 lbs in the ground for the sec. cor. of sec. 31 & 32. 24 S. R. 1 N. marked "H" on N. face and raised a mound of stones 2 ft. base, 1 1/2 ft. high. N. of cor. Post impracticable.	
55.00	Bottom of ravine soft, deep, coarse, W. to	
69.00	Top of stony ridge, bears N. and S.	
77.00	Leave timber, enter sage brush	
81.69	The cor. of sec. 5, 6, 31 and 32 which is a trachyte stone 6x11x6 in., above the ground marked and witnessed as described by the Surveyor General. The obliterated marks referring to S. 24 S. R. 1 N. Dense No, trees S. 89° 28' E.	
	Over level land, through dense sage brush and scattering aspen.	
87.74	Wagon road, bears N. and S.	
88.04	Set a trachyte stone 18x14x5 in., 12 lbs in the ground for closing cor. of sec. 31 and 32. S. 24 S. R. 1 N. marked C.C. on N. side with 5 grooves on E. and 1 groove on W. faces, and raised a mound of stones 2 ft. base. 1 1/2 ft. high. N. of cor. Post impracticable. Land mountainous.	
	Sod story, 4 ft. rate.	
	Pine and aspen.	
	Mountainous land 88.07 Chs.	

	88.07 Chs.
	Over rolling land through dense sage brush and scattering aspen.
41.10	Old wagon road bears S. E. and N. W.
6.80	Begin second
32.83	Enter pine and aspen
34.57	The 1/4 sec. cor. of sec. 5 S. 24 S. R. 1 N.

Survey of the S. body of T. 24 S., R. 1 W.

Distance:

38.85

Bottom of ravine course. N.

40.00

" Set a Brachyte stone $14 \times 8 \times 6$ in., 10
in the ground for $\frac{1}{4}$ sec. cor. of sec.
32 S. body, Tp. 24 S. R. 1 W. marked $\frac{1}{4}$
S. on N. face and raise a mound
of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
This impracticable.

54.85

Top of ridge bears N.W. and S.E.
Descending

74.58

The cor. of secs 41.5, 32 and 33,
which is a Brachyte stone $6 \times 14 \times 8$ in.,
above the ground marked and
evidenced as described by the
Surveyor General.

The oblique marks referring to
Tp. 24 S. R. 1 W.

Hence we now

$71^{\circ} 86' 05'' E.$

Descending

80.02

Set a Brachyte stone $18 \times 12 \times 7$ in., 12 in.
in the ground for closing cor. of secs.
32 and 33 S. body, Tp. 24 S. R. 1 W.
marked C.C. on N. with 2 grooves on
Tt. and 4 grooves on S. faces, and
raise a mound of stone 2 ft.
base $1\frac{1}{2}$ ft. high, N. of cor. This im-
practicable.

Land mountainous.

Soil. Stony; of talus.

Flora. Pine and aspen.

Mountainous land 80.02 obs.

At this cor. we set off $23^{\circ} 27'$
N on the decl. arc; and at 12 hr. 01 m.
l.m.t., observe the sun on the mer-
idian. The resulting lat. is $38^{\circ} 41' N.$

$71^{\circ} 86' 05'' E.$

Descending

of the S. . of 7.24 S. R. 1 N.

- 10.80 Foot of slope, and old road bears S. E. and N. W.
Ascend over stony land, through
scattered pine and aspen.
- 35.28 Trachyte stone $12 \times 12 \times 10$ in., 8
in the ground for re-established $\frac{1}{4}$ sec. cor. of sec.
 $\frac{1}{4}$ on N. bdy. of 7th. 25 S. R. 1 N., marked
 $\frac{1}{4}$ S. on N. face, and raise a
mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high,
N. of cor. Plot impracticable.
After diligent search no signs of
old $\frac{1}{4}$ sec cor can be found.
- 36.80 Top of ridge, bears, N. and S.
Descend.
- 40.10 Set a Trachyte stone $14 \times 9 \times 9$ in., 10 in.,
in the ground for $\frac{1}{4}$ sec. cor. of sec.
33 S. bdy. of 7th. 24 S. R. 1 N., marked $\frac{1}{4}$
S. on N. face, and raise a mound
of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
Plot impracticable
- 51.80 Bottom of ravine course U. E. and
old wood road bears N. W. and S. E.
Descending.
- 75.97 The cor. of secs. 3. 4. 33 and 34
which is a Trachyte stone $6 \times 16 \times 12$ in.,
above the ground, marked and wit-
nessed as described by the Surveyor
General. We obliterate all marks
referring to 7th. 24 S. R. 1 N.
Hence we run
 $77.86^{\circ} 46' E.$
- 76.57 Top of ridge bears N. and S.
- 78.17 Begin descend
- 80.18 Set a Trachyte stone $16 \times 9 \times 9$ in.,
 $1\frac{1}{2}$ in., in the ground for closing
cor. of secs. 33 and 34 S. bdy. 7th. 24
S. R. 1 N., marked L.R. on N with
3 grooves on E. and 3 grooves on N.
faces, and raise a mound of stone
2 ft. base, $1\frac{1}{2}$ ft. high. N. of cor. Plot

Survey of the S. body of T. 24 S., R. 1 W.

Land, mountainous.

Stony: 4th rate
Timber, Pine and aspen scattering,
Mountainous land 80.18 Dhs.

N. 86° 46' E.

Descending through dense under-growth scattering cedar and mahogany, soil stony.

21.00 Bottom of ravine, coarse S.
ascending.

37.96 Trachyte stone 15x9x7 in.,
10 in. in the ground for established 1/4
cor. of sec. 3 N. body, Tp. 25 S. R. 1 W.,
marked 1/4 S. on S. face, and raise
a mound of stone 2 ft. base 1/2 ft. high,
S. of cor. Pit impracticable

40.06 Set a trachyte stone 15x9x7 in.,
10 in. in the ground for 1/4 sec.
cor. of sec. 34. S. body, Tp. 24 S. R. 1
marked 1/4 S. on N. face, and
raise a mound of stone 2 ft. base
1/2 ft. high, N. of cor. Pit imprac-
ticable.

42.00 Top of ridge bears N. and S.
Descending into Bear Valley,

Foot of mountain leave cedar and mahog-
any enter dense sage brush.

Road to Salina. bears N. & S.

- 80.12 The cor. of secs. 2, 3, 34, and. 35,
Land, mountainous.

Stony: 4th rate,
Timber cedar and mahogany,
Mountainous land

80.12 Dhs.

June 19. 1897.

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PAGE

Subdivision of T. 24 S., R. 1 W.

vars - me 20: 1897.

At 7 a.m., l.m.t. we set off
 $38^{\circ} 41' N.$ on the lat. arc; $23^{\circ} 28' 00'' N.$ on
 the decl. arc; and determine in
 meridian with the solar alt
 ity cor of secs. 2, 3, 34 and 35.
 body. Tp 24 S. R. 1 W.

Hence we run north on a blank
 line along the west boundary of
 35° at 40.00 elev. we find the
 1/4 sec. cor. and at 80.03 elev. in-
 tersect C. and N. line at the es-
 cor. of secs. 26, 27, 34
 and 35 which is a Granite stone
 $8 \times 10 \times 6$ in. above the ground
 marked and witnessed as describ-
 by the Surveyor General.

From the above described cor.
 we run West on a sectional
 correction line bet. secs. 27 and 34
 ascending

15.00 Top of ridge. bears $71.20^{\circ} W.$ and $8.20^{\circ} E.$

Descending into Bear Valley,
 enter scattering cedars and dense
 undergrowth.

29.00 Foot of slope leave cedars.

39.40 Road to Burville and Lizard. bears N. new.

40.00 Set a Trachyte stone $24 \times 14 \times 6$ in.,
 18 in. in the ground for 1/4 sec. cor.
 marked '44 S. on N. face and raise
 a mound of stone 2 ft. base 1/2 ft.
 high. N. of cor. It is impracticable
 along level, soil gravelly.

45.00 Begin ascend C. slope of mountain
 through dense undergrowth.

80.00 Set a Trachyte stone $24 \times 10 \times 9$ in.,
 18 in. in the ground for cor. of secs.
 27, 28, 33 and 34. marked with 1
 notch on S. and 3 notches on C. edges
 and raise a mound of stone 2 ft. base

Subdivision of 9.245, R. 1 N.

- 1 1/2 ft high. N. of cor. Pits impracticable
 Land mountainous
 Soil, gravelly and stony; 3rd and 4th rate.
 River, cedar scattering.
 Mountainous land 80.00 chs.
-
- N. lat. sec. 28 and 33
 Ascending through dense undergrowth
 Soil stony.
- 12.80 Top of mountain bears N. and S. enter
 scattering cedar and mahogany,
 over rolling land
- 28.00 Ravine course N.W. and S.E. drains N. & S.
 37.00 Ridge bears N.W. and S.E.
 44.00 Set a trachyte stone 20 x 8 x 6 in., 12 in.
 in the ground for 1/4 sec. cor. marked 1/4
 S. on N face and raise a mound of
 stone 2 ft. base 1 1/2 ft high N. of cor.
 Pits impracticable
- 67.00 Ledges N. and S.
 70.00 Ravine course, N.W. and S.E. drains N. & S.
 Ascend.
- 80.00 Set a trachyte stone 26 x 8 x 6 in., 20 in.
 in the ground for cor. of secs. 28, 29,
 32 and 33, marked with 1 notch on
 S and 4 notches on E.
 Edges, and raise a mound of stone
 2 ft. base 1 1/2 ft. high N. of cor. Pits
 impracticable.
 Land mountainous.
 Soil stony; 4th rate.
 River, cedar and mahogany.
 Mountainous land 80.00 chs.
- June 20th. At this cor. We set off 25° 27' 30" N.
 on the decl. arc; and at 12 hrs. 01 m. l.m.t.
 observe the sun on the meridian, the
 resulting lat. is 38° 42' N.
-
- N. lat. sec. 29 and 32.
 Descending.
- 14.00 Top of ridge, bears N.W. and S.E. enter drainage

Subdivision of Tp 24 S., R. 17 W. - Continued.

Same undergrowth.

18.00	Ledges, descending along S.W. slope, soil stony, leave undergrowth,
40.00	Set a Pradyle stone 14 x 6 x 6 in., 10 in. in the ground for 1/4 sec. cor. marked N.E. on N. face and raise a mound of stone 2 ft. base 1 1/2 ft. high, N. of cor. Pits impracticable.
52.00	Bottom of slope, along level,
58.09	Road road, bears N.W. and S.E., soil flat dunes N.E.
69.70	Road to Glenwood bears N.E. and S.E.
80.00	Set a Pradyle stone 24 x 10 x 6 in., 18 in. in the ground for cor. of secs. 29, 30 31 and 32, marked with 5 notches on E. and 1 notch on S. edges, and raise a mound of stone 2 ft. base 1 1/2 ft. high, N. of cor. Pits impracticable. Land, mountainous. Soil, stony; 21% slate
	Notimber,
	Mountainous land.
	80.00 obs.

N. lat. secs. 30 and 31

Ascending along N. slope of ridge.

15.00	Top of ridge bears N. 40° W. and S. 40° E.
20.00	Ledges, bears N.W. and S.E. descending
23.45	Bottom of ravine curved N. 45° W. and S. 45° E.
31.00	Top of ridge, bears, N. and S.
38.00	Bottom of ravine curved N.W. Ascend,
40.00	Set a Pradyle stone 30 x 12 x 5 in., 20 in. in the ground for 1/4 sec. cor. marked N.E. on N. face and raise a mound of stone 2 ft. base, 1 1/2 ft. high, N. of cor. Pits im- practicable.

Ascending, enter dense under-
growth-

59.00	Top of ridge, bears, N.W. and S.E. over land
72.00	Ridge, bears, N.W. and S.E.
73.45	Begin descend N. slope of mountain

Subdivision of T. 24 S., R. 1 W.

87.93 chs. Allowing for convergence.

Set a lump. cor for secs. 2 & 3 & 8, sec 86

June 20, 1897.

Note:

- 77.08

The permanent corner was set at
on June 22, 1897, description of same
will be found in book of the Land
bdy. of T. 24 S., R. 1 W.

Land mountainous

Soil, stony.

No timber

Dense undergrowth on mountainous
land,

77.08 chs.

Volume

#

R0250

Subdivision of T. 24. S., R. 1 W. - Continued,

- ravine. 30. At 7 a.m. l. m.t., We set off $38^{\circ} 42' N.$
on the lat. arc; $18^{\circ} 24' W.$ on the decl.
arc; and determine a true meridian
the solar at the cor. of secs. 27,
28, 29 and 34.
Hence we run
 $0^{\circ} 1' E.$ on a random line bet. secs 33 and 34,
40.00 temp. $\frac{1}{4}$ sec. cor.
84.55 Intersect S. Bdy. of P. P. at the closing cor.
of secs. 33 and 34. previously set by us.
Hence we run
 $N. 0^{\circ} 1' W.$ on a true line bet. secs. 33 and 34,
along level, through scattering mahogany
and dense undergrowth.
44.55 To a Prachyle stone $20 \times 8 \times 6$ cm., 15 mts.
the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$,
on W. face, and raise a mound of
stone 2 ft. base $1\frac{1}{2}$ ft. high. N. of cor.
Pits impracticable.
51.79 Ledges, bears S. and W., begin rapid descent, leave
mahogany.
59.26 Head of ravine, course N.E. along
side of mountain slope to the E.
- 84.55 The cor. of secs. 27, 28, 33 and 34.
Land mountainous,
all stony; $\frac{1}{4}$ to $\frac{1}{2}$ mts.
Dribbles. Mahogany scattering
mountainous land and dense undergrowth.
84.55 Chs.
 $N. 0^{\circ} 1' W.$ bet. secs. 27 and 28,
descending through dense undergrowth
over rolling land.
19.35 Bottom of small ravine, course N.E.
40.00 To a Prachyle stone $14 \times 10 \times 8$ mts., 10 mts.
the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$
on W. face, and raise a mound of
2 ft. base. $1\frac{1}{2}$ ft. high N. of cor. Pits
practicable.
48.30 Leave undergrowth.
60.00 Wood road, bears S. and W.
foot of slope.

Subdivision of T. 24 S., R. 1 W.

Chains.

- 64.30 Begin, ascend, enter scattering cedar and mahogany.
- 80.00 a Prachtyle stone $24 \times 13 \times 10$ in., 18 in. in the ground for cor. of secs. 21, 22, 27 and 28; marked with 2 " on N. face, 3 notches on S. and 3 notches on E. edges, and raise a mound of stone 3 ft. base 2 ft. high, N. of cor. Pit impracticable.
Land, mountainous.
cl. gravelly and stony; 3 sand 4 $\frac{1}{2}$ salt.
Timber, cedar and mahogany scattering.
Mountainous land. 80.00 obs.
- July 30: At this cor. We set off $18^{\circ} 19' 30''$ N. on the decl. arc; and at 12 less 06 m., p.m. m.t., observe the sun on the meridian the resulting lat. is $38^{\circ} 43' N.$
- on a random line betw. secs. 22 and 27.
- 40.00 a temp. $\frac{1}{4}$ sec. cor.
- 80.00 Intersect N. and S. line 5 esp. S. of the cor. of secs. 22, 23, 26, and 27, which is cl. sandstone $6 \times 8 \times 5$ in., above ground marked and witnessed as described by the Surveyor General.
Hence we ran
- . $89^{\circ} 38' W.$ on a true line betw. secs. 22 and 27.
Ascend. over rolling land.
- 18.30 Ravine course S. W.
- 32.00 Ravine course S. W.
- 40.02 Set a Prachtyle stone $24 \times 12 \times 10$ in., 18 in. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ S on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pit impracticable.
Descending, into Bear Valley.
- 46.30 Hagon road to Sigurd. bears N. and S.
- 47.00 Branch, Zepherville flows N.
- 59.00 Descends.
- 54.00 Top of ridge. bears N. and S.
- 64.00 Bottom of ravine course S. and N.

Subdivision of T. 24 S., R. 1 W. - continued.

- hains
 - 79.50 Ascend enter scattering cedar and mahogany.
 86.00 Top of ridge bears N.W. and S.E. Descend
 The cor. of secs. 21, 22, 27 and 28.
 Land mountainous.
 Soil stony; 4th rate.
 Timber, cedar and mahogany, scattering.
 Mountainous land 80.00 shs.

July 30th 1897.

July 31, 1897. At 7 a.m. I. m. t., the sec off 28
 43' N. on the lat. arc; 18° 09' N. on the decil.
 and determine a true meridian, via
 the solar at the cor. of secs. 21, 22, 27 & 28
 Hence we run.

7.0° 0' W. beh. secs. 21 and 22,

Ascend through scattering cedar and
 mahogany.

6.00 Top of ridge bears N. and S.

7.50 Begin descend along E. slope of ridge,
 leave scattering timber, cedar
 undergrowth.

40.00 Set a trachyte stone 14 x 10 x 8 ins. 8
 in the ground for 1/4 sec. cor. mark

14 S. on N. face and raise a mound
 of stone 2 ft. base, 1 1/2 ft. high, N. of cor.
 It is impracticable.

57.00 Prairie course N. E.

68.50 Ridge bears N. E. and S.W. descend

- 80.00 1/4 a trachyte stone 20 x 12 x 10 ins. 15
 in the ground for cor. of secs. 15, 16, 21,
 & 22, marked 24 S. on N. E. and
 1 W. on S. E. faces, with 3 notches
 on S. and E. edges, and raise a
 mound of stone 2 ft. base, 1 1/2 ft. high.
 It is impracticable.

Land mountainous

Soil stony; 4th rate.

Timber, cedar and mahogany scattering.
 Mountainous land, 80.00 shs.

N. 89° 58' E. on a random line beh. secs.
 15 and 22,

Subdivision of T. 24 S., R. 1 W. Continued.

Chancis,	
40.00	Set tempo $\frac{1}{4}$ sec. cor.
80.07	Intersect N. and S. line 3 cks. N. of the cor. of secs. 14, 15, 22, and 23, which is a gray sandstone $7 \times 12 \times 7$ ins. above the ground marked and witnessed as described by the Surveyor General. Hence the name
	$38^{\circ} 49' 09''$ N. on a true line bet. secs. 15 and 22.
	Ascend over rolling land, soil stony.
38.75	Top of ridge bears N. E. and S. W.
40.03	Set a sandstone $18 \times 10 \times 7$ ins, 12 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ N. S. on N. face and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high. N. of cor. Pit impracticable.
	Descend.
58.00	Bottom of ravine course S. W.
	Descend.
61.20	Ridge bears N. E. and S. W.
62.00	Enter dense cedar.
69.00	Leave dense cedar.
70.00	Begin rapid descent
70.20	Dry wash foot of slope drain N. W.
70.50	Wagon road to bigard bear, N. W. and S. E.
80.07	The cor. of secs. 15, 16, 21 and 22, Land mountainous. Soil stony; stoniferous, Timber. Cedar.
	Mountainous land. 80.07 cha.
July 31.	At this cor. We set off $18^{\circ} 05' 00''$ N. on the decl. arc. and at 12 hrs, 06 m. P. M. L. observe the sun on the merid. the resulting lat. is $38^{\circ} 43' 30''$ N.

	$37.0^{\circ} 01' W.$ bet. secs. 15 and 16.
	Descend over stony soil.
7.50	Wagon road to bigard bear N. W. and S. E.
	Ascend under scattering cedar.
17.80	Ridge bears S. E. and N. W. descend
24.25	Bottom of gulch 100 ft deep course N.

Subdivision of T. 24 S., R. 1 W., Cont'd.

Ascend

40.00 Sandstone $24 \times 10 \times 8$ in., 18 in. inc
- ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$
on N. face, and raise a mound of
- 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Pits impracticable,

46.00 Top of ridge bears E. and W. slopes and gradually
dense cedar.

50.50 Ascend, over rolling land.

78.50 Ravine course, N.W., ascend.

- 80.00 Sandstone $32 \times 15 \times 8$ in., 24 in.
The ground for cor. of secs. 9, 10, 15
and 16, marked with 4 notches on S.
3 notches on C.,
and raise a mound of stone 2 ft. base
 $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable,
Land mountainous.

along $\frac{1}{4}$ th. rate.

Timber, Cedars,

Mountainous land

80.00 pts.

$89^{\circ}59'$ E. on a random line betw. secs. 10 and 15;

40.00 Limp. $\frac{1}{4}$ sec. cor.

80.04 - N. and S. line 2 lps., N. of the cor.
of secs. 10, 11, 14 and 15, which is a grey
Sandstone $7 \times 7 \times 6$ in., above the ground
marked and witnessed as described by
Surveyor General.

Hence we run

N. on a true line betw. secs. 10 and 15;

Descend along N. slope of ridge

40.02 a Sandstone $18 \times 10 \times 8$ in., 12 in. inc
- ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$
on N. face, and raise a mound
of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
Pits impracticable

70.00 Ascend

72.70 - cedar, scattering,

73.60 Top of ridge bears N.W. and S.E. descend

80.04 The cor. of secs. 9, 10, 15 and 16.

Land mountainous.

Subdivision of T. 24 S., R. 1 W.

area. gravelly and stony: 3rd and 4th rate.
Timber, cedar, scattering.

Mountainous land 80.04 acs.
31" 18

At 7 a.m. l.m.t., We set off $38^{\circ} 44' N.$
on the lat. arc: $17^{\circ} 54' N.$ on the decl. arc;
and determine a true meridian with
the solar at the cor. of secs. 9, 10, 13, and 16.
Hence we run

$N. 0^{\circ} 1' W.$ bet. secs. 9 and 10.

Ascend. through dense cedars.

15.00 Top of ridge. bears S.E. and N.W.

17.00 Descend along N.E. slope.

Set a Brachyte stone $24 \times 10 \times 10$ ins., 18 ins.
in the ground for 1 $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$
S. on N. face, and raise a mound of stones
2 ft. base $1\frac{1}{2}$ ft. high N. of cor. Pts imprac-
ticable

50.90 Wagon road bears N.W. and S.E. foot of slope.
Leave cedars.

52.00 Ascend.

Ridge bears S. and W. Descend.

67.20 Bottom of ravine. course S.W. and N.E.

Ascend through dense sage brush.

- 80.00 Set a Sandstone $24 \times 10 \times 8$ ins., 18 ins. in
the ground for cor. of secs. 3, 4, 9 and 10.
marked with 3 notches on S. and 3 notches
on E. edges, and raise a mound of
stone 2 ft. base $1\frac{1}{2}$ ft. high. N. of cor.
Pts impracticable.

Land mountainous.

Soil stony: 4th rate.

Timber, cedar.

Mountainous land.

Aug: 1st At this cor. we set off $17^{\circ} 50' N.$
on the decl. arc: and at 12 hrs 06 m.
l.m.t., observe the sun on the
the resulting lat. is $38^{\circ} 45' N.$

S. on a random line bet. secs. 3 and 10.

40.00 Set temp 1 $\frac{1}{4}$ sec. cor.

Subdivision of T. 24 S., R. 1 W., Continued.

- 80.00 Intercept N. and S. line at the cor. of secs.
 2, 3, 10 and 11, which is a grey Sandstone
 $6 \times 9 \times 5$ ins., above the ground marked
 and witnessed as described by the
 Surveyor General. Hence we run
 N. on a true line bet. secs. 3 and 10
 Ascend over rolling land .. .
- 11.50 Bottom ravine Course S.W.
- 32.30 Ridge, bears S.W. Descend.
- 40.00 a Sandstone $18 \times 8 \times 6$ ins., 12 ins. in
 ground for 1/4 sec. cor marked 1/4 S
 on N. face, and raise a mound of
 stone 2 ft. base 1 1/2 ft. high N. of cor. Bits in-
 /
- 66.00 Ravine, course S.W. Ascend.
- 80.00 The cor. of secs. 3, 4, 9 and 10.
 Land mountainous.
 stony: 4th rate.
 No timber.
 Mountainous land 80.00 chs.
- N. 0° 1' W. on a random line bet. secs. 3 and 4
 36.23 Intercept N. Bdy. Pp. at the cor. of
 sections 3, 4, 9 and 10, previously
 set by me.
 Hence we run
 S. 0° 0' E. on a true line bet. secs. 3 and 4.
 Descend
- 16.73 Head of ravine course S.W. Ascend.
- 30.38 Ridge, bears N.E. and S.W.
- 36.23 The cor. of secs. 3, 4, 9 and 10
 Land mountainous
 Soil gravelly and stony: 3rd and 4th rate.
 No timber
 Mountainous land 36.23 chs.
- August 1st 1897.

Aug 2: At 7th 30th a.m. l.m.t. We set off
 38° 42' N. on the lat. arc; 17° 38' N. on the
 decl. arc; and determine a true

Subdivision of T. 24 S., R. 1 W., Col.

Bearings, meridians with the solar at the cor. of
secs. 28, 29, 32 and 33, previously set by us.
Hence we run.

8.0' E. on a random line bet. secs. 32 and 33
40.00. Set a temp $\frac{1}{16}$ sec. cor.

89.97 Intersect S. bdy. Tp. 24 S., R. 1 W. at
the closing cor. of secs. 32 and 33,
previously set by us.
Hence we run.

N. 0° 01' W. on a true line bet. secs. 32 and 33
Descending through heavy pine and aspen.

11.36. Spread bears N. W. S. E. leave timber.
Accord

18.31 Ledges, bears E. and W. cedar, mahogany

22.00 Top of ridge, bears E. and W. Descend.

37.00 Ravine coarse N. Accord.

45.31 N. of ridge bears N. and W.

49.97 At a Paolistic stone 20x8x6 in., 15 min. in
the ground for 1/16 sec. cor. marked $\frac{1}{16}$ S.
on N. face, and same, a mound of stones
2 ft. base, 1 1/2 ft. high N. of cor. Difficult
to impracticable.

Descending.

50.81 Under scattering aspen

52.31 Leave aspen.

63.00 Under aspen.

66.00 Leave aspen.

72.00 Ravine, coarse, N. W.

74. Accord

82.00 Ledges, bears N. and W.

86.00 Begin gradual descent.

- 89.97 The cor. of secs. 28, 29, 32, and 33.
Land mountainous

it stony: $\frac{1}{16}$ rate:

Pine, Cedar, aspen and mahogany.

Mountainous land 89.97 elev.

N. 0° 01' W. bet. secs. 28 and 29.
Descending

Subdivision of T. 24 S., R. 1 W. Continued.

Hours.	
10.00	Bottom of ravine. course N. ascending over rolling land
40.00	Set a Brachylot stone, 18x8x6 ins., 8 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, and raised a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
77.00	Top of ridge. bears. N.E. and S.W.
78.00	Began descend
80.00	Set a Brachylot stone 24x12x8 ins., 14 ins. in the ground for cor. to secs. 20, 21, 28 and 29, marked with 4 notches on the E. & S. 2 notches on S. edges and raise a mound of stone 2 ft. base. 1 $\frac{1}{2}$ ft. high N. of cor. Pits impracticable.

Land, mountainous.

Soil. Stony! 4th rate.

No timber.

Mountainous land 80.00 obs.
At this cor. we set off $17^{\circ}34' N$ on the
decl. arc. and at 12 hr., 06 M. L. v. t.,
observe the sun on the meridian.
The resulting lat. is $38^{\circ}45' N$ which
is the proper lat. at this place.

40.00	C. on a random line bet. secs. 21. and 28. Set a temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect N. and S. line at cor. of secs. 22, 27, 21 and 28. Hence we run
22.50	N. on a true line bet. secs. 21 and 28. Descending through cedar
40.00	Bottom of ravine, 150 ft. deep. obs. S. ascending, through dense under- growth and cedar.
	Set a Brachylot stone 20x15x10 ins., 15 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, and raise a

Subdivision of 7248, T.R., W. Con.

Drains	mound of stone 2 ft. base 1½ ft. high
41.10	N. of cor. Post impracticable.
	Top of ridge. bears N.E. and S.W.
	Descending
58.50	Bottom of ravine, course N. drains N.
	Ascending
78.20	Top of ridge. bears S.W. and N.E.
- 80.00	The cor. of secs. 20, 21, 28 and 29.
	Land. mountainous,
	Soil stony. 4 ft. soil
	Timber. Cedar and dense undergrowth
	Mountainous land 80.0 acres.
	Aug. 2nd 1897.

Aug. 3d

At 7 a.m. I. m. I. We set off 17° 22' 30" N.
on the decl. and 38° 21' 30" N. on the lat. and
and determined a true meridian
with the solar. at the cor. of 20-21-28
and 29

Hence we run

N. 0° 01' W. bet. secs. 20 and 21.

Descending through dense undergrowth
Bottom of ravine. bears N.E.
Ascending along west side of ravine
through scattering cedars and dense
undergrowth

40.00 Set a ^ABrachlyte stone 20 x 10 x 8 ins., 15 lbs
in the ground for 1/4 sec. cor. marked 1/4
on N. face. and raised a mound of stone
2 ft. base 1½ ft. high N. of cor. Post
impracticable.

59.00 Top of ridge. bears N.E. and S.W.

61.20 Begin descend

72.15 Bottom of ravine 60 ft. deep course N.E.
Ascending

- 80.00 Set a ^ABrachlyte stone 22 x 12 x 6 ins., 8 lbs,
in the ground for cor. to secs. 16, 17, 20, & 21
Marked with 3 notches
on the S. and 2 notches on the E. edges

Subdivision of T. 2 sec. 7, R. 1 N. - Continued.

	and raise a mound of stone 2 ft. base 1½ ft. high N. of cor. It is impracticable This cor. is on point of mountain bearing, N. and S. Land. Mountainous.
	Soil. Stony. 4th rate.
	Timber. Cedar and undergrowth
	Mountainous land. 80.00 Chs.

40.00	C. on a random line bet. secs. 16 and 21 Set a temp 1/4 sec. cor.
50.06	Intersect N. and S. line 5½ cks. S. of cor. to secs. 15, 16, 21 & 22.
	Then westward
	S. 89° 5' 8" W. on a true line bet. secs. 16 and 21.
	Descending
5.140	Wood road. bears N.E. and S.W.
6.00	Bottom of ravine course N. E.
	Ascending
13.00	Top of ridge. bears N.E. S.W. descending.
38.00	Wood road. bears. N. E. and S.W.
38.50	Bottom of ravine course N. E.
	Ascending cedar cedar
40.03	Set a Wedge stone 18 x 12 x 8 ins., 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face, and raise a mound of stone 2 ft. base 1½ ft. high N. of cor.
	It is impracticable.
52.40	Top of ridge. bears N. and S. descending.
62.70	Bottom of ravine course S.
70.00	Began ascend
80.06	The cor. of secs. 16, 17, 20 and 21.
	Land mountainous.
	Soil. Stony. 4th rate.
	Timber cedar.
	Mountainous land ✓ 80.06 Chs.
	At this cor. Wedge off 19' 18" N. on the decl. and and at 12 hrs 6 m. L. mt. observe the sun on the meridian the resulting lat is 38° 43' 37"

Subdivision of T. 24 S., R. 1 W.

Means.	No ° 0' N. bet. sec. 16 and 17, Along top of mountain over rolling land
3.00	Ceder cedar.
40.00	Set a Brachyte stone 20x10x8 ins., 15 ins. in the ground for 1/4 Sec cor. marked 1/4 on N. face. and raise a mound of stones 2 ft. base 1 1/2 ft. high N. of cor. Pits in- practicable.
66.00	Descending into ravine. bears N. ^{and S.} along the West side.
80.00	Set a Brachyte stone 30x18x6 ins., 22 ins. in the ground for cor. to sec. 8, 9, 16 and 17 marked with 4 Notches on S. and E. edges, and raise a mound of stones 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.
	Land. mountainous. Sod. Stony 3 rd rate. Timber. Cedars. Mountainous land
	80.00 plus Aug. 3, rd 1897.
	Aug. 4: At 7 a.m. L.M.T. we set off 1° 0' 7" N. on the decl. arc; $38^{\circ} 14' N$ on the lat. arc; and determined a true meridian with the solar at the cor. of sec. 8, 9, 16 and 17. Hence we run N. $89^{\circ} 58' E.$ on a random line bet. sec. 9 and 16.
40.00	Set a temp. 1/4 Sec. cor.
80.07	Intersect N. and S. line 1 ch. N. of the cor. to sec. 9, 10, 15 and 16. Hence we run S. $89^{\circ} 58' N.$ on a true line bet. sec. 9 ^{and} 16.
2.50	Descending through cedars. Bottom of ravine. course N. N.
11.00	Ascending. Top of rocky. bears N. N. and S. E.

Subdivision of T. 24 S., R. 1 W.-Continued.

8 miles	Descending	
40.01	Set a Prachytō stone 24x10x6 ins., 18 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high N. of cor. Pits impracticable	!
44.80	Began rapid descent. Leave cedars.	
49.00	Deep wash 30 lks wide, course N.W.	
50.70	Wagon road, to Sigurd, bears N.W. $\frac{1}{2}$ S.E.	
52.00	Begin ascend. under dense under- growth.	
53.00	Ledges, bears N.W. and S.E.	
71.80	Cop of ridge, bears N. and S.	
	Begin descend.	
74.00	Bottom of ravine, 125 ft. deep, course N. descending	
- 80.02	The cor. of secs. 8, 9, 16 and 17, Land. mountainous. Soil. stony, sulphate. Timber. Cedars.	
	Mountainous land	80.02, plus,

	N. 0° 1' W. bet. secs. 8 and 9.
3.75	Descending along E. side of ridge. Leave cedars, scattering.
40.00	Set a Prachytō stone 20x10x8 ins., 15 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high N. of cor. Pits impracticable. About $\frac{1}{2}$ mile E. springs, source of Willow Creek
63.00	Foot of slope, leave cedars. Willow Creek 2 lks. wider, course N.W.
70.50	Wagon road to Sigurd, bears N. $\frac{1}{2}$ W. $\frac{1}{2}$ S. $\frac{1}{2}$ E.
80.00	Set a Prachytō stone 24x10x5 ins., 18 ins. in the ground, on N. slope of ridge for cor. to Recs. 4, 5, 8 and 9, marked with 5 notches on S and 4 notches on E. edges. Raised a mound of stone 2 ft. base $\frac{1}{2}$ ft. high N. of cor. Pits impracticable, from which

Subdivision of T. 24 S., R. 17 W.

Mains	A Cedar 12 in. diam. beard N. 60° E. 30 lbs dist. Marked T 24 S., R. 17 W. S. 4 B.T. No other trees within proper dist.
	and, mountainous. Soil, gravelly and stony; 3rd and 25th parts. Timber, Cedars.
	Mountainous land 8.00 Ahs. At this cor. We set off $17^{\circ} 02'$ N on the decl. arc and at 12 hrs, 6 m, 1 m. t. observed the sun on the meridian the resulting lat. is $38^{\circ} 45'$ N which is the lat at this place.
	N. $89^{\circ} 58'$ E. on a random line bet. seccts. 4 and 9.
40.00	Set a temp. 1/4 sec. cor.
79.97	Intersect N. and S. line 5. lbs. N. of the cor. to seccts. 3. 4. 9 and 10 Hence we run
	N. on a true line bet. seccts. 4 and 9.
2.00	Top of ridge bears S.W. and N.E. descending
12.20	Bottom of ravine course S.E. ascending, interceding cedars.
20.60	Top of ridge, bears N. and S. Begin descend gradually. cedar's scattering.
39.98	Set a Prachyle stone 18 x 10 x 8 in., 12 lbs. in the ground for 1/4 sec. cor. marked 1/4 on N face and raise a mound of stone 2 ft. base 1 1/2 ft. high N of cor. It is impracticable.
44.50	Begin gradual ascent.
57.50	Top of ridge, bears N. and S. descending
79.97	The cor. of seccts. 4. 5. 8 and 9. Land, Mountainous. Soil, gravelly and stony. 3rd and 25th parts. Timber, Cedars
	Mountainous land 7.9.97 Ahs.

Subdivision of T. 24 S., R. 1 W. Continued,

Means	$N. 0^{\circ} 1' W.$ on a random line bet. secs 4 and 5.
36.22	Entered N. bdy of Pp. 1/4 M. E. of the C. & C. of secs. 4 & 5. previously set by us. Hence W. from $S. 0^{\circ} 1' E.$ on a true line bet. secs. 4, 5, and 6. Ascending through scattering cedar.
4.75	Top of ridge. bears S. E. and N. W. descend
8.92	Bottom of ravined course W. Descending
16.22	Top of ridge. bears N. W. and S. E. Descending
36.22	On cor. of secs. 4, 5, 8, and 9: Land. mountainous. Soil. Stony: 4th-matt. Timber. Scattering cedar. Mountainous land

36.22 P.M.

Aug. 4, 1897,

Aug 5, 1897.

At 9. a.m. I. m. t. we set off $16^{\circ} 49' N.$ on the decl. arc. $38^{\circ} 42' N.$ on the lat. arc. and determined a true meridian with the solar at the cor. of secs. 29, 30, 31 and 32, previously set by us.
Hence W. from

$S. 0^{\circ} 0' 2' E$ on a random line bet. secs. 31 and 32.

40.00 Set a temp. 1/4 sec. cor.

89.65 Intersect E. and W. line 1/4 M. W. of the eleven cor. of fractional secs. 31 and 32, previously established by us.

Hence W. from

$N. 0^{\circ} 2' W.$ on a true line bet. secs. 31 and 32.

Descending

9.91 Cedar glenwood.

14.56 Top of ridge. bears N. W. and S. E.

Subdivision of T. 24 S., R. 1, N. Portion

Chain.

- 18.50 Begins descent.
- 19.65 Set a Prud'homme stone. 28x12x5 ins., 21 ins.
in the ground for 1/4 sec. cor. marked
1/4 on W. face, and raise a mound of
stone 2 ft. base 1 1/2 ft. high. N. of cor.
This impracticable.
- 20.56 Bottoms of ravine. course N. 24° W.
Descending. leave quadrangle.
- 21.50 Top of ridge. bears S.E. and N.W.
Descending.
- 22.36 Bottom of ravine. course N. N.E.
Ascending.
- 23.50 Top of ridge. bears S.E. and N.W.
- 24.71 Wood road. bears N. and E.
- 25.50 Wagons road to sawmill bears S. W. and N. E.
Descending.
- 26.65 The cor. of sec'd. 29, 30, 31, and 32.

Land, mountainous.

Soil. Stony. 1/2 - 1/4 in.

Timber. Breakaway

Mountainous land 89.68 acres.

At this cor. we set off 16° 46' N. on the
surf. arc. and at 12 hrs. 6 m. l. mst.
observe the sun on the meridian.
The resulting lat. is 38° 42' N.

N. 0° 2' W. bet. sec'd. 29 and 30.

Over rolling land. soil stony.

26.00 Bottom of small ravine course N. N.E.

27.00 Bottom of ravine course N. E.

28.60 Wagons road bears N. N.E. and S.E.

29.65 Set a Prud'homme stone 24x8x6 ins., 18 ins.
in the ground for 1/4 sec. cor. marked
1/4 on W. face, and raise a mound of
stone 2 ft. base 1 1/2 ft. high. N. of cor.
This impracticable.

Descending.

30.65 Bottom of ravine course N. N.E. and

Subdivision of T. 24 S., R. 1 W.-Continued.

Directions.

Wagon road bears. N. W. and S. E.

7.200 Begin ascend

80.00 Set a Brachlyte stone 26 x 8 x 6 ins., 18 ins. in the ground for cor. to sec. 19, 20, 29 and 30. marked with 2 notches on the S. and 5 notches on the E. edges, and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high N. of cor. It is impracticable.

Land. mountainous

Soil. gravelly and stony: 3rd and 4th soil.

No timber. Heavy sagebrush.

Mountainous land

8000 ft.

Aug. 5, 1897,

Aug. 6, 1897,

At 7 am. C.M.T. we set off 16° 34' N. on the decl. and 38° 28' 3" N. on the lat. and determined a true meridian with the solar at the cor. of sec. 19, 20, 29 and 30.

Hence we run

E. on a random line bet. sec. 20 and 29.

40.00 Set a temp 1/4 sec. cor.

50.00 Intersect N. and S. line at the cor. of sec. 20, 21, 28 and 29.

Hence we run

N. on a true line bet. sec. 20 and 29.

Descending

7.00 Bottom of slope

Point of low ridge. bears N. 45° S. descend

24.00 Head of ravine course N. W. ascend

36.00 Top of ridge bears. N. N. and S. E.

Descending.

40.00 Set a Brachlyte stone 20 x 10 x 5 ins., 15 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 3 ft. base 2 1/2 ft. high N. of cor. It is impracticable.

Bottom of ravine course N. W.

Subdivision of T. 22 S., R. 1 W., Donisthorpe

	Ascending through dense undergrowth
77.00	Top of ridge bears N. N. and S. E.
	Descending
- 80.00	The cor. Top sec. 19, 20, 29, and 30. Land. mountainous. Soil. Stony: 4 th rate. No timber. Oak and sage brush Mountainous land
	80.00 per
	N. on a random line bet. sec. 19 & 30.
40.00	Set a temp 1/4 sec. cor.
76.98	Entered N. and S. line 1 W. N. of the C. C. of sec. 19. and 30 N. bdy Twp. 22 S. R. 1 W. Previously set by us. Hence we mark
	Each . . . on a true line bet. sec. 19 and 30.
	Ascending over ledges and cliff
6.00	Top of cliff. descending
18.76	Bottom of canon 200 ft deep course S.
	Descending.
36.98	Set a tridohyle about 24x12x8 in., 18 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face. and raised a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.
43.82	Top of ridge bears N. & S. descending
51.32	Head of ravine course N.
	Descending.
57.12	Top of ridge. bears N. & S. descending.
70.62	Wagon road. bears N. W. and S. E.
71.62	Bottom of ravine course N. W.
	Descending.
- 76.98	The cor. of sec. 19, 20, 29, and 30. Land. mountainous. Soil. Stony: 4 th rate. No timber.
	Mountainous land
	76.98 per
	At this cor. We set off 16° 29' N. on clif. and at 12 hrs. 06. m. L.M.T. observe the sun. on the meridian

Subdivision of T. 224. S., R. 1 W. - Continued,

against, the scattering lat is $3.8^{\circ} 43' N.$

	N. 0° 2' W. bet. seccts. 19 and 20
	Ascending through oak brush over stony soil
4.00	Top of ridge. bears S.E. and N.W.
5.00	Leaves mahogany. begin described.
20.00	Bottom of ravine. course N. Ascending.
25.20	Top of stony ridge. bears N. and E. Descending.
31.55	Bottom of ravine. course N. Ascending.Leave mahogany
36.00	Top of ridge. bears S.E. and N.W. Descending.
40.00	Set a Trachyte stone 28x10x8 in., 14 in. in the ground for cor. cor. marked 1/4 on N. face, and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.
43.00	Bottom of ravine, course S. E.
"	ascending through scattering mahogany
55.00	Top of ridge. bears S. E. and N. W. Descending.
65.00	Ravine. course N. ascending.
77.00	Top of ridge bears E. S. W. Leave scattering mahogany.
80.00	Set a Trachyte stone 20x8x6 in., 13 in. in the ground for cor. to seccts. 17, 18, 19 and 20. marked with 3 notches on the S. and 5 notches on the E. edges, and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.
	Land. mountainous.
	Soil. stony; 4th rate
	Timber. Mahogany scattering
	Mountainous land

80.000 cu.

Dec. 6th 1897.

Subdivision of T. 24 S., R. 1 W.

Claims. Aug. 4:

- at 7 a.m. l. m. t., we set off $38^{\circ}43'50''N.$ on the lat. arc; $16^{\circ}17'W.$ on the decl. arc, and determine a true meridian with the solar at the cor. of secs. 17, 18, 19 and 20.
 Hence we run
 C. on a random line bet. secs. 17 and 20
 40.00 Set a temp. $\frac{1}{4}$ sec. cor.
 80.08 Intersect N. and S. line 3 cks S. of the cor to secs 16, 21, 17 and 20
 Hence we run
 S. $89^{\circ}59'W.$ on a true line bet. secs. 17 and 20.
 Descending gradual slope to N. and W. through scattering cedars and mahogany.
 Leave cedars and mahogany.
 18.00 Top of low ridge bears N.E. and S.W.
 39.70 Leave sage and oak brush.
 40.04 Set a brachyte stone $30 \times 12 \times 9$ ins., 22 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face and raise a mound of stone 2 ft. base. $1\frac{1}{2}$ ft. high N. of cor.
 Pitt impracticable
 66.00 Head of small ravine. course N. W.
 - 80.08 The cor. of secs. 17, 18, 19 and 20.
 Land. mountainous.
 Soil. stony. 4th rate.
 Timber. Cedar and Mahogany.
 Mountainous land 80.08 pho.
-
- West. . . . on a random line bet. secs. 18 and 19
 40.00 Set a temp. $\frac{1}{4}$ sec. cor.
 76.87 Intersect N. and S. line 1 ck. S of the C.C. of secs 18 and 19 N body of Tp 24 S. R. 1 W. previously set by us.
 Hence we run
 C. on a true line bet. secs. 18 and 19

Subdivision of T. 24 S., R. 1 W., Continued.

Obs. 1.	ascending.
200	Top of ridge, bears S.E. and N.W. along N slope of ridge.
20.00	Head of ravine, course N.W.
36.87	Set a Brachylite stone $26 \times 12 \times 10$ ins., 19 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pilot impracticable.
76.87	Ascending along N. slope of ridge. The cor. of sects 17, 18, 19 and 20. Land. mountainous. Soil. stony! 4th val. No timber.
	Mountainous land 76.87 obs. At this cor. I set off $16^{\circ} 13' 1''$ N. on the decl. arc. and at 12 hrs. 6 m. Lmt. observe the sun on the meridian the resulting lat is $38^{\circ} 43' 30''$ N. which is the lat lat this place

	No. 2 W. bet. sects. 17 and 18, Descending
8.00	Bottom of ravine, 20 ft deep, course N.W.
	Ascending
18.50	Top of small ridge, bears N.W. and S.E.
	Descending
28.00	Bottom of ravine, 75 ft deep, course N.W. Ascending through scattering cedars
37.00	Top of ridge, bears N.W. and S.E., leaves cedars.
40.00	Set a Brachylite stone $24 \times 10 \times 6$ ins., 18 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pilot impracticable.
	Descending. over stony soil.
62.90	Cedar cedar, bottom of ravine 60 ft. deep course, N.W. ascending.

Subdivision of R. 24 S. T. 14 E.

Plans.

- 70.00 Top of ridge. bears S. E. and N. W.
Leave cedars.
- 80.00 Set a Brachylite stone 24x12x6 in., 12 in.
in the ground for cor. to sec. 7. 8. 17
and 18. marked with 4 notches on
the S. and 5 notches on the E. edges,
and raised a mound of stone 2 ft.
base 1½ ft. high N. of cor. This imprac-
ticable.
- Land. mountainous.
Soil. stony. &c to rock.
Timber. Cedars.
Mountainous land. 80.00 per ha.

Aug. 7. 1897

Aug. 8.

At 7 a.m. L.M.T. We set off $38^{\circ} 44' N.$
on the lat arc. $16^{\circ} 00' W$ on the decr. arc.
and determined a true meridian
with the solar at the cor. of sec.
7. 8. 17 and 18.

Hence we found

$N. 89^{\circ} 07' 16''$ on a random line bet. sec.
8 and 17.

40.00 Set a temp 14 sec. cor.

50.00 Intersect N. and S. line 3 cps N of cor.
of sec. 8. 9. 16 and 17.

Hence we found

$W.$ on a true line. bet. sec. 8 and 17.
Descending.

5.50 Top of ridge. bears N. E. descending.

15.00 Head of ravine, course N. ascending.

31.00 Top of ridge. bears N. and S. descending.

35.00 Bottom of ravine. 100 ft. deep, bears. N.
ascending.

40.00 Set a Brachylite stone. 22x10x8 in., 16 in.
in the ground for 14 sec. cor. marked 14
on N. face and raise a mound of
stone 2 ft. base 1½ ft. high N. of cor.
This impracticable

Subdivision of T. 24 S., R. 1 W. Continued.

Plain	ascending.
47.00	Pop. of ridge. bears N. & S. descending.
72.00	Center cedar.
76.50	Leave cedar.
- 80.00	The cor. of sec. 7, 8, 17 and 18.
	Land, mountainous.
	Soil, stony: 4 th val.
	Timber: Cedars.
	Mountainous land 80.00 per.
40.00	W. on a random line bet. sec. 7 and 18. Set a temp 1/4 sec. cor.
76.79	Intersect Creek Body No. at the E. C. of sec. 7 and 18. Previously set by no. Hence 1/4 sec.
	E. on a stone line bet. sec. 7 and 18. Ascending over stony land
5.66	Pop. of ridge bears. N. and S.
	Descending.
15.66	Bottom of ravine 50 ft. deep, coarse S. Ascending.
34.66	Pop. of ridge. bears N. N. & S. E. center pine and cedars. descending.
36.79	Set a trachyte stand 20 x 10 x 6 in., 15 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stones 2 ft. base 1 1/2 ft. high N. of cor. Not impracticable.
42.85	Bottom of ravine 100 ft. deep, coarse S. E. Leave pine and cedar. ascending.
45.66	Ledges bears N. N. & S. E.
56.50	Pop. of ridge. bears N. N. & S. E. descending.
60.65	Bottom of ravine 60 ft. deep coarse N. W. ascending through cedar and dense undergrowth
71.66	Pop. of ridge. bears N. & S. leave cedar.
76.00	Bottom of small ravine coarse S. W.
76.79	The cor. of sec. 7, 8, 17, and 18.

Subdivision of T. 24 S., R. 1 W.

	Diamet. Land. mountainous. Soil. stony. 4th rated. timber. Pine and cedar. Mountainous land
	at this east point off $16^{\circ} 55' N.$ on the dec. arc. and at 12 hrs 5 m L.M.T. observed the sun on the meridian, the resulting lat. is $38^{\circ} 44' N.$ which is the lat. for this place.
	$N. 0^{\circ} 2' W.$ bet. sec. 7 and 8. Descending.
0.75	Bottom of ravine 20 ft. deep. course S.W. ascending over rolling land through scattering cedars.
6.00	Leave cedars.
15.00	Enter cedars.
40.00	Set a Prachett stone 24x12x10 ins, 18 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face. and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. This impracticable. from which a cedar 12 ins. diam. bears $N. 45^{\circ} E.$ 25 lvs. dist. marked S. 7. B.T. A cedar 14 ins. diam. bears S. 5° E. 1.20 lbs. dist. marked B.T. S. 8.
41.00	Wood road. bears N. W. and S. E.
47.00	Bottom of ravine. 40 ft. deep. course W.
61.00	Bottom of ravine 30 ft. deep. course W.
71.00	Bottom of ravine 60 ft. deep. course W.
80.00	Set a Prachett stone 24x12x8 ins, 8 ins. in the ground for cor. of sec. 5. 6. 7 and 8. marked with 5 notches on S. and E. edges. and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. This impracticable. from which.
	A cedar 10 ins. diam. bears N. 60° W. 30 lvs. dist. marked T. 24 S. R. 1 W. S. 6 B.T.
	A cedar 10 ins. diam. bears S. 10° E.

Subdivision of T. 24 S., R. 1 W.; Continued.

Brand.	400 acres. dist. marked T. 24 S. R. 1 W. S. 8. B.T. A Pine 8 in. diam. bears N. 4° E. 40 acres dist. marked T 24 S R 1 W S 5 B T. No other tree within proper dist. Land. mountainous. Soil. stony. $\frac{1}{4}$ th salt. Timber. Cedars and Juniper pines Mountainous land. 80.00 ac.
--------	--

Aug. 8, 1897.

Aug. 9, 1897.

At 7 a.m. L. M. L. set off 38° 45' N. on the lat. and 10° 3' W. on the decl. and determined a true meridian with the solar at the cor. of sec. 5, 6, 7 and 8.

Spurred to point

E. on a random line bet. sec. 5 & 8.
Set a temp $\frac{1}{4}$ sec. cor.

79.93 Intersect N and S line 1/2 M. N. of the cor. of sec. 4, 5, 8 and 9.

Spurred to point

W. on a true line bet. sec. 5 and 8.

Descending.

5.00 Wagon road to Sigurd, bears N. W. & S. E.
14.45 Yellow creek, 3 acres. wide flows. N. W.
16.00 Begin ascend through dense cedars.
29.00 Top of ridge, bears. N. & S. descending.
35.00 Bottom of ravine 25 ft. deep, course S.
Leave cedars

39.50 Wagon road to Glenwood, bears N. W. & S. E.
39.96 Set a Brachyte stone 18 x 10 x 8 ins., 12 ins.
in the ground for Yoke. cor. marked
 $\frac{1}{4}$ on N. face and raised a mound
of stone 2 ft. base 1/2 ft. high N. of cor.
Site impracticable.

Around over rolling land through scattering cedars

Top of ridge bears N. and S. Descend.

Bottom of ravine 40 ft. deep, course N.

Top of ridge bears N. and S. Descend.

Bottom of ravine 60 ft. deep, course N.

Top of ridge bears N. and S.

Subdivision of T. 24 S. R. 1 W. Col.

Chains	
- 79.93	The cor. of sects. 5, 6, 7 and 8. Land. mountainous. Soil. stony: 4th rate Timber. Cedars scattering Mountainous land
	79.93 obs.
40.00	N. on a random line bet sects. 6 and 7. Set a temp 1/4 sec. cor.
76.76	Intersect North bdy. of Twp. 1 ex. S of the 1/4 sec. of sect. 6 and 7. Previously set by us. Hence the same
6.1	6.1 on a line bet. sects. 6 and 7, Ascending.
8.55	Cedar cedar.
9.25	Top of ridge bears N.E. & S.W. descending.
18.55	Bottom of ravine 20 ft. deep course N.E. ascending.
36.76	Set a Brachylit stone 18x8x6 ins., 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable
62.75	Wood road. bears, N.W. and S.E.
62.95	Top of ridge bears N.E. and S.W. descending
76.76	The cor. of sects. 5, 6, 7 and 8. Land. mountainous. Soil. stony: 4th rate. Timber. Cedars. Mountainous land
	76.76 obs. At this cor. H.C. set off 15° 38' N. on the dec'd. arc. and at 1.2 hrs. 5 m. L.m.t. observe the sun on the meridian the resulting lat. is 38° 45' N.
36.23	N. 0° 2' E. on a random line bet. 5 and 6. Intersect North bdy. of Twp. at the 1/4 sec.

Subdivision of R. 24 S., T. 14, -Continued,

Planeis.	fractional secs. 5 and 6. Hence the run S. $0^{\circ} 2' 6''$ E. on a true line bet. secs. 5 and 6. Descending
8.43	Wood road bears. N.W. and S.E.
9.08	Wagon road to Glenwood bears N.W. and S.E. Ascending.
11.23	Ceder cedars.
20.25	Ledges. bears E and W.
21.00	Top of ridge bears E and W.
36.23	The cor. of secs. 5, 6, 7 and 8. Land. mountainous. Soil. stony; 4th rate. Timber. Cedars Mountainous land. 36.23 obs.

Aug. 9, 1899.

At 2 hrs. 30 m. p.m. I. M. L. Ha set off
 $38^{\circ} 4' 5''$ N. on the lat. arc; $13^{\circ} 36' 6''$ N on the
dec. arc; and determined a true
meridian with the solar at the por.
of secs. 2, 3, 10 and 11. which is a
gray Sandstone 6 x 9 x 5 ins., above
the ground marked and witnessed
as described by the Surveyor Gen-
eral.

Hence the run

N. on a random line bet. secs. 2 and 3
Intersect North bdy. of I. P. at the cor. of
sections 2, 3, 34 and 35; previously
set. by us.

Hence the run

S. on a true line bet. secs. 2 and 3.

Descending through scattering cedars.

Top of ridge. bears. W. and N.E.
Descending.

Bottom of ravine 30 ft. deep. course
W. leaves cedars.

The cor. of secs. 2, 3, 10 and 11.

Subdivision of 9 2 4 8, R. 1 N. - Cont.

Plains	Land mountainous. Soil, gravelly; 3rd salt. Timber, Cedars Mountainous land. Aug. 9th 1897.
	Aug. 10: At 7 a.m. I. m. I. W. set off $38^{\circ} 45' N.$ on the lat. arc. $13^{\circ} 25' W.$ on the sec. arc. and determined a true meridian with the solar at the cor. of secs. 1, 2, 11 and 12, which is a gray Sandstone $7 \times 8 \times 5$ ins., above the ground marked and witnessed as described by the Surveyor General. Henceforth run
36.24	N. on a random line bet. secs. 1 and 2. Intersect North body of R. P. 6 ins. E. of the cor. of secs. 1, 2, 3 & 4 previously set by us. Henceforth run S. $0^{\circ} 6' E.$ on a true line bet. secs. 1 and 2. Along E. slope of mountain through scattering cedars, over stony soil, and rolling land.
36.24	The cor. of secs. 1, 2, 11 and 12. Land. mountainous. Soil. Stony; 4th salt. Timber. Cedars scattering Mountainous land. 36.24 miles
40.06	E. on a random line bet. secs. 1 and 12. Set a temp. 1/4 sec. cor. Intersect N. and S. line 1/2 ins. S. of the cor. of secs. 1, 12, 6 and 7, on Salt-Lake Meridian, which is a sandstone $6 \times 10 \times 6$ ins., above the ground marked and witnessed as described by the Surveyor General. We find that we will not close within limits. We therefore proceed to retrace the E. body of sec. 1, as follows:
50.07	

Retracement of the Section line, S. 12, T. 11.

Hence we run North on a blank line along the E. bds. of sec. 1. P.s.s.d. R. 1 H. and at 36.21 chs. intersect the corner of Pps. 2 & 3 and 2 & 4 R. 1 H. on Salt Lake Meridian, previously established by us. This distance proves the correctness of our work.

Therefore we proceed to the corner of sec. 1, 12, 6 and 7 Pps. 2 & 3 S. R. 1 E. and 1 H. previously described and run S. 89° 59' W. on a true line bet. sec. 1 and 12 according through scattering cedar and mahogany.

26.00	Top of ridge bears N. and S. Descend
40.00 1/2	Set a trachyte stone 18x10x6 in. 12 in. in the ground for 1/4 sec. cor. marked 1/4 on N face and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Site impracticable
45.00	Begin rapid descent, conifer timber
48.00	Bottom of ravine 150 ft. deep covered N. E. Begin steep ascent under dense undergrowth.
61.00	Top of ridge bears N. E. and S. S. E. cedar scattering cedar. Descend.
66.50	Bottom of ravine 200 ft. deep, conifer N. E. ascend through dense undergrowth; leave scattering cedar.
- 80.07	The cor. of secs. 1, 2, 11 and 12. Land mountainous Soil clayey, stiff, white. Driker cedar and mahogany Mountainous land 80.07 chs.

Aug. 10th 1897.

General Description.

This township is entirely mountainous land sloping to the North and West and is very broken. The water supply is very limited.

General Description

being only one small stream
of water.

The timber consists of cedar, pine,
aspen and mahogany, with dense
growth of sage and oak brush.

The land is unfit for agricultural
purposes but is good grazing lan-

in the south portion where
grain grows abundantly.

There is one settler on the S. W.
 $\frac{1}{4}$ of Sec. 9 who cultivates about
3 or 4 acres of land along the road
bet. Lillard and Grass Valley, a
Samaritan, and whose residence
is located about or near the corner of the
north line of the S. W. $\frac{1}{4}$ of Sec. 9.

The magnetic needle indicates the presence
of iron ore, of which there is no
available indication.

Hubert D. Fagge
George O. Stone
U.S. Deputy Surveyor

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Final Oaths of Deputy Surveyors and their Assistants.

LIST OF NAMES.

A list of the names of the individuals employed by

, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of

showing the respective capacities in which they acted:

, Chainman.

, Chainman.

, Moundman.

, Moundman.

, Axman.

, Axman.

, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted

, United States Deputy Surveyor, in surveying all those parts or portions of the

..... of the base and meridian, of , which are represented

in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for

, Chainman.

, Chainman.

, Moundman.

, Moundman.

, Axman.

, Axman.

, Flagman.

Subscribed and sworn to before me this

day of, 189 . }



Final Oath of United States Deputy Surveyor.

I, _____, United States Deputy Surveyor solemnly swear that, in pursuance of instructions received from _____, bearing date _____ day of _____, 189_____, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____
of the _____ and _____ meridian, in the _____ of _____, which are represented by the foregoing field notes as having been surveyed by me, and under my directions; and I do further swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and the foregoing are the true field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Subscribed by said _____, United States Deputy Surveyor, }
and sworn to before me this _____ day of _____, 189_____. }



APPROVAL.

Office of the United States Surveyor General,

Dalldale City Plat, May 26th, 189_____,

The foregoing field notes of the survey of the subdivisions of the _____
South Range 1 West of the Dalldale Base
Meridian, _____, _____

execute _____
then _____
under his Contract No. 209, dated December 12th, 1896, having
critically examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Jacob T. B. Blodget

United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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S.G.B.

BOOK A-250

FIELD NOTES

OF THE SURVEY OF
The

West boundary of T. 24 S. R. 17 E.

and

East boundary of

Township No. 24 South.

Range No. 2 West.

Of the Salt Lake Base and Meridian,

In the state of Utah

AS SURVEYED BY

Albert D. Page and George C. Swan, United States Deputy Surveyors,

Under their Contract No. 709, dated December 26th, 1891.Survey commenced June 21st, 1897.Survey completed June 22nd, 1897.

(1319-2,600.)

Pdng - high 5-48-13 1
 closing - 10-86 1

Names and Duties of Assistants.

James M. Lentz, Chairman.

James Holdaway, chairman.

Douglas A. Swartz, chairman.

Owen A. Snoot Jr., chairman.

James M. Lentz, moundsman.

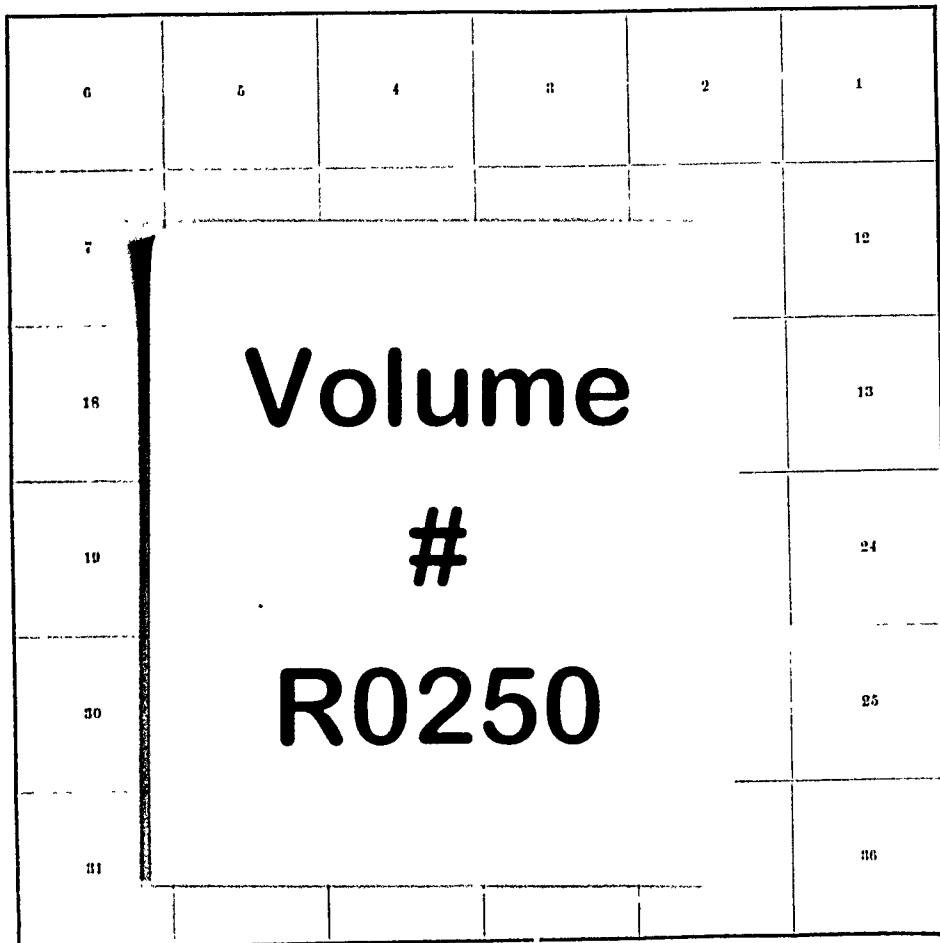
James Holdaway, moundsman.

Samuel Michael Adams, Charles A. Barnes, ^{Officer} ~~Chairman~~, Vassar.

In preliminary affidavits, see book "A".

INDEX DIAGRAM.

Township *Range*



Meanders Page.....

Preliminary Oaths of Assistants.

We, and do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey

, Chainmen

, Chainmen

Subscribed and sworn to before me this

day of , 189 . }



We, and do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

, Moundmen

, Moundmen

Subscribed and sworn to before me this

day of , 189 . }



We, and do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corn and other duties, according to instructions given us, to the best of our skill and ability, in the survey

, Axmen

, Axmen

Subscribed and sworn to before me this

day of , 189 . }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability in the survey of

, Flagmen

Subscribed and sworn to before me this

day of , 189 . }



' even concurred by 1.24 S. R. 1.17. '90
Each bounda' of T. 24 S., R. 2 W.

June 21st 1897 At 7 a.m. l.m.t., We set off $38^{\circ}41'$ N. on the lat. arc: $23^{\circ}28'$ N. on the decl. arc: and determine, a true meridian with the solar at the cor. of Tps. 24 and 25 S., R.s. 1 and 2 W., allowing for the southing of S. bdy. of T. 24 S., R. 2 W.,
We find

N. on a random line bet. Tps. 24 S., R.s. 1 and 2 W. setting time 1/4 sec. and sec. corr.s, at intervals of 40,000 chs. and 80,000 chs. as at 5 miles 48.49 chs. intersect N. bdy. T. 24 S., R. 2 W. 10.85 chs. N. of the cor. of Tps. 23 and 24 S., R.s. 1 and 2 W., which is a trachyte stone $6 \times 8 \times 5$ ins, above the ground marked as described by the Surveyor General. Owing to the excessive error we abandon our random line and proceed to the cor. of Tps. 23 and 24 S., R.s. 1 and 2 W., in accordance with instructions received from Surveyor General.

June 21. 1897. At 5 p.m. l.m.t., We set off $38^{\circ}46'$ N. on the lat. arc: $23^{\circ}28'$ N. on the decl. arc: and determine with the solar a true meridian and mark a point there of with a tack driven in a stake set firmly in the ground 5 chs. N. of the cor.

June 21st 1897

June 22nd, 1897. At 1^{hr} 22^m a.m. l.m.t., We observe Polaris at eastern elongation in accordance with the manu of Instructions and mark a position in the line thus determined on a plug driven in the ground 5 chs. N. of station.

June 22, 1897.

At 7 a.m. l.m.t., We lay off the azimuth of Polaris $1^{\circ}35'$ to the west. The true meridian thus determined falls on the mark determined by p. m. solar observations

June 23rd.

boundary 8 : 22' 16 ft. 7'

East bound of T. 24 S., R. 2 W. - 0

chains. At 7 hr 30th a.m. l.m.t., we set off 38° 46' N. on the lat arc; 23° 28' N. on the decl. arc; and determine a true meridian with the solar which falls on the mark set on the true meridian established by Polaris observations. The solar apparatus by p. m. and a. m. observations defines position of the true meridian established by Polaris observations. Therefore we conclude the adjustments of the instrument are satisfactory.

After several trials can get no satisfactory magnetic reading, owing to local attractions.

From the N. cor. already described, the S. on the range line bet. T. 24 S. and 2 W. setting corners for both Nps.

Descend over rolling land through dense sage

- 9.00 Bottom of ravine 100 ft. deep course N. ascend
 14.20 Top of ridge and wagon road to Glenwood
 bears S. S. E. and N. E. descend
 22.25 Old wagon road, bears S. W. and N. E.
 23.00 Bottom of ravine 50 ft. deep course N. ascend
 27.00 Old wagon road, bears E. and N.

Allowing for error in the S. bdy. of T. 24 S., R. 1 W., we place the fractional distance the northern half mile and establish the closing cor. for secs. 6 and 7 T. 24 S., R. 1 W., as follows:

- 36.20 Set a trachyte stone 14 x 10 x 7 in., 10 in. in the ground for closing cor. of secs. 6 and 7 T. 24 S., R. 1 W. marked C. C. on top with 1 groove on N. and 5 grooves on the S. faces, and raise a mound of stone, 2 ft. base 1½ ft high E. of cor. This impracticable.
 Land mountainous
 Soil stony, 4 to 5 ft. hard,

35

East boundary of T. 24 S., R. 1 W. and
East boundary of T. 24 S., R. 2 W. - Continued.

and No timber.

Mountainous land 36.20 acs.

- with along range line
Over rolling land through dense sage brush
4.95 road, bears E. and W.
Allowing for error in the S. bdy. of T. 24
. R. 2 W. We place the fractional dist.
the northern half mile and est
cor. for secs. 1 and 12. T. 24 S. R. 2 W.
as follows:
- 10.52 a trachyte stone 15x9x7 ins., 10 ins.
the ground for cor. of secs. 1 and 12
T. 24 S., R. 2 W. marked with 5" n
on S. and 1 notch on N. edges, and
a mound of stone 2 ft. base
1 1/2 ft. high. W. of cor. Pilō impracticable
38.00 bottom of ravine and wash, course
N. W.
40.00 a trachyte stone 14x10x6 ins., 10
the ground for 1/4 sec. cor. of sec.
7. T. 24 S., R. 1 W. marked 1/4 on E.
and raise a mound of stone 2 ft. base
base 1 1/2 ft. high. E. of cor. Pilō
acticable
44.00 Begin ascend.
50.52 a trachyte stone 16x9x8 ins., 11 ins.
the ground for 1/4 sec. cor. of sec. 12
T. 24 S., R. 2 W. marked 1/4 on W. face
and raise a mound of stone 2 ft. base
1 1/2 ft. high W. of cor. Pilō impracticable.
55.00 Top of ridge bears N. 60° W. and S. 60° E.
55.50 Road bears N. W. and S. E. descended
67.50 Bottom of ravine course N. ascended
75.80 intercedar and pinion pine
80.00 a trachyte stone 15x8x6 ins., 10 ins. in
ground for closing cor. of secs. 7 and 18
T. 24 S., R. 1 W. marked L. L. on E. with
2 grooves on N. and 4 grooves on the S.
asc. and raise a mound of stone 2 ft.
1 1/2 ft. high E. of cor. Pilō impracticable.

1866 Standard of T. 24 S. R. 1 W. cont'd.

East bound of T. 24 S. R. 1 W. continued.

Chains	which	
	A pine 10 ins. diam. bears S. 65° E. 15 dsb. marked T. 24 S. R. 1 W. S. 18 D.T.	
	A cedar 9 ins diam. bears N. 65° E. 10 crs. dsb. marked T. 24 S. R. 1 W. S. 7 D.T. Land mountainous.	
	Soil stony, & rocky, Pine, cedar and pinon pine, Mountainous land	80.00 chs.

	S. along range line.	
	Over rolling land through sage brush and scattering cedar	Ascending
5.00	Trachyte ledges and boulders bears E and W.	
10.52	Set a trachyte stone 14x10x9 ins., 10 ins. in the ground for cor. of sec. 12 and 13 T. 24 R. 1 W. marked with 4 notches on the S. and 2 notches on N. edges, and raise a mound of stone 2 ft. base 1/2 ft. high W. of cor. Plot impracticable.	
11.50	Top of ridge bears E and W. descend,	
17.50	Bottom of ravine, 50 ft deep, course W. ascend,	
23.50	Top of ridge bears E and W. descend,	
33.00	Bottom of ravine 30 ft. deep course W. ascend	
35.70	Wood road, bears N. W. and S. E.	
44.00	Set a trachyte stone 15x8x6 ins., 10 ins. in the ground for 1/4 sec. cor. of sec. 18 T. 24 S. R. 1 W. marked 1/4 on E. face and raise a mound of stone 2 ft. base 1/2 ft. high E of cor. Plot impracticable, from which	
	A cedar 10 ins. diam. bears N. 68° E. 36 crs. dsb. marked 1/4 S. S. 18 D.T.	
42.50	Leave cedars.	
50.52	Set a trachyte stone 17x9x7 ins. 12 ins. in the ground for 1/4 sec. cor. of sec. 13 T. 24 S. R. 2 W. marked 1/4 on W. face and raise a mound of stone 2 ft. base 1/2 ft. high W. of cor. Plot impracticable.	
62.30	Top of ridge bears E and W. descend,	

West boundary of T. 24 S., R. 1 W., and
East bound of T. 24 S., R. 2 W.-Continued.

chains

- 70.00 Bottom of ravine soft deep coarse W.
Scattered cedar and pinon pine.
80.00 Bed a trachyte stone 16 x 8 x 6 ins., 11 ins. in
the ground for closing cor. of secs. 18 and
19 T. 24 S., R. 1 W. marked C.C. on E.,
with 3 grooves on N. and S. faces and
ravine, a mound of stone 2 ft. base
1 1/2 ft. high E. of cor. Site impracticable,
from which

A Pinon pine 14 ins. claim bears S.
6 1/2 x 4 ins. diam. marked T.T. 24 S. R. 1 W. S. 19,

A Cedar 14 ins. claim bears N. 40° E. 18 ins.
diam. marked T.T. 24 S. R. 1 W. S. 18

Ridge mahogany.

Sedimentary: 4 miles?

Scattered cedar and pinon pine.

Mahogany covered 80.00 ahs.

along range line
Over rolling land through scattering
of trees descend

- 6.00 Bottom of ravine 20 ft. deep coarse W.
Ascend
10.52 Bed a trachyte stone 14 x 9 x 6 ins., 10 ins. in
the ground for cor. of secs. 13 and 24 T. 24
R. 2 W. marked with 3 notches on N. and
edges and ravine, a mound of stone
2 ft. base 1 1/2 ft. high. W. of cor.
Site impracticable.

19.80 Bottom of ravine 200 ft. deep coarse W.

20.20 Waggon road to tops of mountain, bears
and W.

28.50 Tops of ridge bears E. and W. slopes W.
scattering cedar and mahogany.

38.50 Top of trachyte cliffs 40 ft. high, bears E. and W.

39.10 Bottom of cliffs.

39.80 Bottom of ravine 200 ft. deep coarse W.

40.00 a trachyte stone 18 x 10 x 6 ins., in a
mound of stone for 1/4 sec. cor. of sec.
19 T. 24 S. R. 1 W. marked 1/4 ins. C.

Field boundary of S. 24 L. R. 2 N. and
back boundary of S. 24 L. R. 2 N. portion.

- Plain face and raise a mound of stone 2 ft.
base 1 $\frac{1}{2}$ ft. high E. of cor. Its impracticable.
56.52 Set a trachyte stone 14 x 11 x 7 ins. 10 ins. in
the ground for 1 $\frac{1}{2}$ sec. cor of sec. 24 D. 2 N.
S. R. 2 N. marked 1 $\frac{1}{2}$ ins. on N. face and raise
a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high. N. of
cor. Its impracticable.
56.26 Top of ridge bears S. 45° W. slopes N.
65.00 Begin steep descent over trachyte ledges
and slide rocks.
75.00 Root of cliffs 20 ft. high. bears N. N. and S. E.
80.00 Set a trachyte stone 34 x 11 x 10 ins. in
a mound of rock for sloping cor. of
secs. 19 and 30 D. 2 N. S. R. marked N. S.
and S. with 1 $\frac{1}{2}$ grooves on N. and 2 grooves
on S. faces, and raise a mound of
stone 2 ft. base 1 $\frac{1}{2}$ ft. high. E. of cor.
Its impracticable.
Lined mound prominent.
Soil stony; no topsoil.
Pine, cedar and mahogany.
Mountainous land. 80.00 sha.
June 22, 1897. At this cor the set off
23° 27' N. on the decl. arc. and at 12
ins. 02 m. l. m. l. observe the sun on
the meridian the resulting decl. is
38° 43' N.

- S. along range line.
Over rolling land, soil stony. Deciduous.
Bottom of ravine 500 ft. deep corse N. N.
Begin steep ascent through dense juniper
edge and oak brush.
80.00 Set a trachyte stone 14 x 7 x 7 ins. 10 ins. in
the ground for cor. S. cor. 24 and 25
D. 2 N. S. R. 2 N. marked with 1 $\frac{1}{2}$ inches
on N. and 2 inches on S. ledge, and
raise a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft.
high. N. of cor. Its impracticable.
12.00 Top of steep ascent 600 ft. above the
bottom of ravine. Litter scattered

East boundary of T. 24 S., R. 1 W., and
East boundary of T. 24 S., R. 2 W. - Continued.

Chamis. mahogany and cedar.

- 37.50 Top of ridge bears N.W. and S.E.
40.00 Set a trachyte stone 14 x 7 x 5 ins., 10 ins.
in the ground for 1/4 sec. cor. of sec. 30,
T. 24 S., R. 1 W. marked 1/4 on E. face and
raise a mound of stone 2 ft. base
1 1/2 ft. high. E. of cor. Post impracticable.
46.00 Bottom of ravine 100 ft. deep. course
N 70° W.
ascend,
50.52 Set a trachyte stone 10 x 7 x 5 ins., 10 ins.
in the ground for 1/4 sec. cor. of sec.
25. T. 24 S., R. 2 W. marked 1/4 on N. f.
and raise a mound of stone 2 ft. base
1 1/2 ft. high. N. of cor. Post impracticable.
53.00 Enter scattering aspen
63.00 A lone pine 3 ft. diam. stands E.
80 yrs. old.
70.60 Top of ridge bears N.W. and S.E.
Leave aspen
- 80.00 Intersect sectional correction line 1080-
ht. E. of temp. cor. of secs. 30 and 31.
T. 24 S., R. 1 W. described in book of subs. T. 24 S., R. 1 W.
Set a trachyte stone 18 x 10 x 6 ins., 12
ins. in the ground for closing cor. of secs.
30 and 31. T. 24 S., R. 1 W. marked S. C. L on
E. with 5 grooves on N. and 1 groove
on S. face, and raise a mound of
stone 2 ft. base, 1 1/2 ft. high E. of cor.
Post impracticable.
We obliterate temp. cor. previously
set by us.
Land mountainous.
it stony: 4th rate.
Timber. cedar, mahogany, and aspen.
Mountainous land. 80.00 chs.

along range line
Over rolling land through scattering
aspen, mahogany, sage and oak
brush, soil stony.

10.52 a trachyte stone 10 x 9 x 7 ins., 10 ins.

West boundary of T. 24 S., R. 1 W., and
East boundary of T. 24 S., R. 2 W. - Continue

is in the ground for cor. of secs. 2.0 and
36 T. 24 S., R. 2 W., marked with 5 notches
on N. and 1 notch on S. edges, and raise
mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high.

N. of cor. Pile impracticable.

24.50 Top of ridge bears N.W. and S.E. slopes N.W.

28.40 Trachyte ledges 10 ft. high, bears E. & W.

32.60 Bottom of ravine 300 ft. deep

77.60° W.

32.80 Old road, washed out bears N.W.E. & E.

40.00 a trachyte stone $16 \times 10 \times 8$ in., 11 in.,
in the ground for $\frac{1}{4}$ sec. cor. of sec. 31
T. 24 S., R. 1 W. marked $\frac{1}{4}$ on E. face and
raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft.
high E. of cor. Pile impracticable.

50.52 a trachyte stone $14 \times 9 \times 6$ in., 10 in.,
in the ground for $\frac{1}{4}$ sec. cor. of sec. 36
T. 24 S., R. 2 W. marked $\frac{1}{4}$ on W. face and
raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft.
high W. of cor. Pile impracticable.

54.50 Tops of spur projects N.W.

Descend along S.W. slope of ridge

58.00 Trachyte ledges, bears N.W. and S.E.

59.00 Ledge ledges.

80.00 This being a convenient and easily
accessible place, we set a witness
for closing cor. of Ops. 24 S., R. 1 and
2 W. as follows.

a trachyte stone $18 \times 10 \times 9$ in., 12
in. in the ground for witness cor for
closing cor. of Ops. 24 S., R. 1 and 2 W.,
marked N. E. & S. E. on N. with 6 grooves
on N.E. and N. faces and raise a
mound of stone 2 ft. base $1\frac{1}{2}$ ft. high.
N. of cor. Pile impracticable.

83.00 Enter dense fallen timber and young
growth of aspen.

91.93 Intercept N. body of T. 25 S., R. 1 W.,
 $77.88^{\circ} 05' 18''$, of the old cor. of Ops. 24 and
25 S., R. 1 and 2 W. 10.86 phs. dist.

West boundary of T. 24 S., R. 1 W. and
East boundary of T. 24 S., R. 2 W. - concluded.

We therefore set a closing corner for
Tps. 24 S., R. 1 and 2 W., as follows:-
Set a trachyte stone 18 x 10 x 6, mis., 12 in. in
the ground for closing corner of Tps. 24 S., R. 1 and
2 W., marked C.C. 24 on N. E. face, and 2 H. on N. face,
with 6 grooves on N. E. and N. faces,
and raised a mound of stone 2 ft. base
1½ ft. high. N. of cor. Pts. impracticable
The obliterated marks on old cor re-
ferring to Tps. 24 S., R. 1 and 2 W., and
rebuilt mound of stone 2 ft. base 1½ ft.
high S. of cor. Pts. impracticable
Sand mountainous,
Soil stony, like talc.
Timber sparse, mahogany and cedar.
Mountainous land 91,93 obs.

June 22, 1897,

Latitude, departure & closing error

Time	True	Distance	Latitude.	Departure
Designation	Bearing	M.	N. S.	E. W.
S. 10° 24' 40.8 S. 24' 37.8 E.	5.85° 0.5 71.	10.86	.36	10.85.
" "	10.24' 40.8' 24' 37.8 E.	115.86	177.	115.85.
" "	37.8 E.	357.07		357.07.
W. "	W. 24' 37.8 E.	437.70	437.70	
W. "	First	340.00		240.00
" "	W. 87° 03' E.	112.86	2.21	42.86
" "	W. 85° 24' E.	37.81	3.00	37.69
" "	W. 89° 12' E.	40.19	.56	40.19
" "	W. 89° 42' E.	171.2	.65	121.2
E. "	South	448.13		448.13
Convergency				.5
Totals				445.89 448.4 182.47 483.7
Error of 1.94				458.0 82.47
Error of 1.94				2.60 130

For general description see
subdivisions of T. 24 S., R. 2 W.

Fubert D. Page,
George O. Simon
U.S. Deputy Surveyor.

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Final Oaths of Deputy Surveyors and their Assistants.

LIST OF NAMES.

A list of the names of the individuals employed by _____, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of _____ showing the respective capacities in which they acted:

_____, Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____

_____, United States Deputy Surveyor, in surveying all those parts or portions of the _____

of the _____ base and _____ meridian, _____ of _____, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for _____

_____, Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

Subscribed and sworn to before me this _____
day of _____, 189 _____. }



Final Oath of United States Deputy Surveyor.

I, _____, United States Deputy Surveyor, solemnly swear that, in pursuance of instructions received from _____, United States Surveyor General for _____, bearing date _____ day of _____, 189_____, I have well, faithfully, and truly, in proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____

of the _____ and _____ meridian, in the _____ of _____, which are represented by the foregoing field notes as having been surveyed by me, and under my directions; and I do further so swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and the foregoing are the *true* field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Subscribed by said _____, United States Deputy Surveyor, }
and sworn to before me this _____ day of _____, 189_____. }



APPROVAL.

Office of the United States Surveyor General,

Salt Lake City, Utah May 26th, 1896

The foregoing field notes of the survey of the ~~Capt. Johnson's~~ ^{Contract No. 1245 RIA and the}
~~24th~~ ^{26th} Range 2 West of the Salt Lake Base
Meridian, Utah

Heber Hager & George L. Brown
executed
under his Contract No. 209, dated December 26th, 1896, having
critically examined, the necessary corrections and explanations made, the said field notes, and the surveys
they describe, are hereby approved.

Jacob B. T. Bl

United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General

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J.W.J.B.

BOOK A-250

FIELD NOTES

OF THE SURVEY OF

The

East Boundary of
Township No 25 South
Range No 3 West

Of the Salt Lake Base ^{and} Meridian,

In the State of Utah.

AS SURVEYED BY

Abel D. Page ^{and} George C. Swan, United States Deputy Surveyors,
Under ~~his~~ ^{their} Contract No. 709., dated December 26, 1896.

Survey commenced July 1st, 1897.

Survey completed July 6th, 1897.

(1319-2,500.)

East Boundary begin ^{Mr. Abel D. Swan} 6-05-89 ✓

Names and Duties of Assistants.

James M. Lentz, Chairman.

James Holdaway, Chairman.

Douglas A. Swan Jr., Chairman.

Owen A. Snoot Jr., Chairman.

James M. Lentz, Moundman.

James Holdaway, Moundman.

Samuel Goodman, Jr., Chairman, Pa.

In preliminary affidavits see book A

Volume

#

R0250

BOOK A-250

INDEX DIAGRAM.

Township *Range*

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30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page.....

Preliminary Oaths of Assistants.

We, _____ and _____

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level chain upon even and uneven ground, and plumb the tally pins either by sticking or dropping the same; we will report the true distance to all notable objects, and the true lengths of all lines that we assi measuring, to the best of our skill and ability, and in accordance with instructions given us in the surv

_____, Chain

_____, Chain

Subscribed and sworn to before me this _____
day of _____, 189 _____ }



We, _____ and _____

do solemnly swear that we will well and truly perform the duties of moundmen in the establishme corners, according to the instructions given us, to the best of our skill and ability, in the survey of _____

_____, Mound

_____, Mound

Subscribed and sworn to before me this _____
day of _____, 189 _____ }



We, _____ and _____

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of cor and other duties, according to instructions given us, to the best of our skill and ability, in the surve

_____, Axm

_____, Axm

Subscribed and sworn to before me this _____
day of _____, 189 _____ }



I, _____, do solemnly swear that I will well and t perform the duties of flagman according to instructions given me, to the best of my skill and ability in survey of _____

_____, Flagm

Subscribed and sworn to before me this _____
day of _____, 189 _____ }



Cast-bairn of T. 25 S., R. 3 W.

July 4th 1897

At 2^{hr} 30^{min} p.m. I. mt, the decl. off
 $38^{\circ}36' N.$ on the lat. arc: $22^{\circ}49' N$ on
 the decl. arc; and determine a true
 meridian with the solar at the
 witness corner on the N. bdy. of T.
 25 S., R. 2 W., which is 74.89 chs. N. of
 the point for Standard S. E. cor. of T. 25
 S., R. 3 W.

Note. For complete list of solar apparatus see
 book C.

Thence we run

North along the E. bdy. of sec. 36.

descend over ledges and stony soil

Top of cliff bears N. W. and S. E.

75.39 Set a trachyte stone 14 x 10 x 8 in., 8 in. in
 the ground for cor. of secs. 25 and 36
 marked with 1 notch on S. and 5 notches
 on N. ledges and ravine a mound of stone
 2 ft. base 1 1/2 ft. high N. of cor.
 Pits impracticable.
 Land mountainous.
 Soil stony: 1/4" gravel
 No timber.
 Mountainous land 80.00 chs.

North along the E. bdy. of sec. 25

12.39 The 1/4 sec. cor. for sec. 31 T. 25 S., R. 2 W.

22.39 Top of ridge bears E. and W. descend
 through scattering pine and cedar

35.39 Bottom of canon 500 ft deep corresp. W.
 leave pine and cedar ascend
 44.00 Set a trachyte stone 15 x 10 x 8 in., 10 in. in
 the ground for 1/4 sec. cor. marked 1/4 on
 N. face and ravine a mound of stone 2 ft. base
 1 1/2 ft. high N. of cor. Pits impracticable

52.39 The closing cor. of secs. 31 & 32 T. 25 S., R. 2 W.

1 previously set by us.

56.19 Top of ridge bears N. E. and S. W. scattered cedars
 descend

- 80.00 A trachyte stone 18 x 8 x 8 in., 12 in. in

East boundary of T. 25 S., R. 3 W.

Shows the ground for cor. of secs. 24 and 25 marked with 4 notches on N and 2 notches on the S edges and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable, from which
A pine 8 in. diam. bears N. 8° W. 35° E. P.R. dash marked T. 25 S., R. 3 W. S. 24 E. T.
A cedar 10 in. diam. bears S. 75° W. 65° E. P.R. dash marked T. 25 S., R. 3 W. S. 25 E. T.
Land mountainous
Soil stony; st th. rocks,
Pine, spruce and cedar,
Mountainous land 80,000 acres

July 4th 1897,

July 5 th 1897: At 7 a.m. I. m.t. set off 38° 38' N. on the lat. arc; 22° 46' N. on the decl. arc; and determine a true meridian with the solar at the cor. of secs. 24 and 25, E body of T. 25 S., R. 3 W., Hence we run
North along the E. body of sec. 24
Descend over stony soil
10,69 Branch 2 E. P.R. wide course N.
12,39 The 1/4 sec. cor. of sec. 20 T. 25 S., R. 3 W., leave cedar
21,19 Old trail bears S. N. and N. E. ascended,
21,99 North branch of Monroe creek 7 E. P.R. wide and bottom of canon 400 ft. deep course S. E. ascend along W. side of canon
29,79 Bottom of ravine 300 ft. below sec. cor. course S. 25° W.
40,00 Set a trachyte stone 15 x 10 x 6 in., green, in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable,
52,39 The closing cor. of secs. 19 and 30 T. 25 S., R. 3 W., previously set by us.

East boundary of T. 2 S., R. 3 W., continued

	Shaw's	
79.39	Top of ridge bears N.E. and S.W. Descend leave cedar.	
80.00	See a trachyte stone 14 x 10 x 5 in., 10 in. in the ground for cor. of secs. 13 and 24. E. bdy. of T. 2 S., R. 3 W. marked with 3 notches on N. and S. edges and raise a mound of stone 2 ft. base, 1 1/2 ft. high, N. of cor. This impracticable. Land mountainous. Soil stony: 4 th -rate. Timber, Cedars. Mountainous land. 80.00 also.	
	July 5, 1897. At this cor. We set off 22 ⁴⁴ ' N. on the decl. arc; and at 12 hr 04 m. l.m.t. observe the sun on the meridian the resulting lat is 38°39' N.	
12.39	N. along the E. bdy. of sec. 13. Ascending through scattering cedar The 1/4 sec. cor. of sec. 19 T. 2 S., R. 2 W.	
21.89	Bottom of ravine 100 ft. deep course N. ascend.	
20.39	Top of ridge bears E. & W. descend.	
32.39	Bottom of ravine 100 ft. deep course S.W.	
33.79	Top of spur, bears E. & W. descend.	
38.39	Bottom of ravine 120 ft. deep course S.W.	
40.00	See a trachyte stone 16 x 10 x 5 in., 10 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. This impracticable Ascend,	
48.39	Top. of cliff 20 ft high. bears N.E. and S.W.	
52.39	The closing cor. of secs. 18 and 19 W. bdy. of T. 2 S. R. 2 W. previously set by us.	
55.60	Top of low spur projects N. Descend.	
65.60	Ledges bears E. & W.	
78.60	Begin ascend	
80.00	See a trachyte stone 15 x 10 x 8 in., 10 in. in the ground for cor. of secs. 12 and 13	

Each bound of 9.25 S., R. 3 W. contains

area bdy. of 9.25 S., R. 3 W. marked with
2 notches on N and 4 notches on S.

and raise a mound of stone 2
ft. base 1/2 ft. high N. of cor. Pile imprac-
ticable

Land mountainous.

sit stony, 4 ft. rate,
Timber cedar.

Mountainous land. 80.00 hrs.

July 5. 1897.

July 6. 1897.

At 7 a.m. l.m.t. We set off $38^{\circ}39'N.$
on the Lah arc; $22^{\circ}40'W.$ on the decl. arc,
and determine a true meridian
by the solar at the cor. of secs.
12 and 13 E. bdy. 9.25 S., R. 3 W.

Hence we run

N. along the E. bdy. of sec. 12.

Ascend. soil stony, over rolling land.

11.19 Top of spur projects N. Descend along
N. slope of ridge through scattering
dars.

2.39 The 1/4 sec cor. of sec 18 9.25 S., R. 2 W.

40.00 a trachyte stone 15x10x6 in., 8 in.,
in the ground for 1/4 sec. cor. marked 1/4
on N. face. and raise a mound of stone
2 ft. base, 1/2 ft. high N. of cor. Pile impracticable

46.39 Drag road bears E. sec. 17, 18.

52.39 The closing cor. of sec. 17 and 18 N. bdy. 9.25 S., R.
2 W. previously cut by us.

56.59 Top of spur projects N.

Descending over very stony
soil through scattering cedar
over rolling land

80.00 Set a trachyte stone 15x10x6 in., 10 in.,
in the ground for cor. of secs. 1 and 2
E. bdy. 9.25 S., R. 3 W. marked with
1 notch on N and 5 notches on S edges
and raise a mound of stone 2 ft. base
1/2 ft. high N. of cor. Pile impracticable

East boundary of T. 25 S., R. 3 W. - Concluded

Chains	Land mountainous.
	Sail stony; 4 th rate.
	Timber cedar.
	Mountainous land 80,000 lbs.
	July 6 th 1897. At this cor. we set off 22° 38' N. on the decl. arc. and at 12 hr 5' m. L. M. T. observe the sun on the meridian the resulting lat is 38° 40' N +
	N. along the E. bdy. of sec 1. Descend over rolling land sail stony through scattering cedars.
10.39	Bottom of ravine 100 ft. deep course N.W.
12.39	The 1/4 sec cor of sec 7. T. 25 S., R. 2 W.
17.14	Top of ridge bears E. & W.
39.04	Bottom ravine and wash 50 ft. deep course N. 25° E.
40.00	Set a trapezoid stone 16 x 10 x 6 ins, 10 in the ground for 1/4 sec. cor. marked 1/4 on N. face and raised a mound of stone 2 ft. base 1 1/2 ft. high. N. of cor. Pits impracticable.
43.89	Bottom of ravine and wash 100 ft. deep course N.
50.86	Bottom of ravine and wash 70 ft. deep course N.W.
52.89	The closing cor. of secs 1 and 5 N. bdy. T. 25 S., R. 2 W. previously set by us.
61.04	Wood road bears E. and W.
65.85	Wood road bears E. and W.
77.60	Wood road bears E. and W.
82.60	Dry run course N.
85.89	The cor. of Nos. 2 & 4 and 2 & 5 S., R. 3 W. Land mountainous. Stony; 4 th rate. Timber cedar.
	Mountainous land 80,890 lbs.

July 6th 1897,

Latitude, departure ^{and} closing errors.

Line designated	Bearing	True distance	Latitude W. S. E. N.	Departure
Hartuff's lot South	West	480.00		480.00
Block T. 25 S., R. 37 P.	North	480.00	+480.00	
" "	East	240.00		240.00
" "	N 89° 09' E	80.10	1.19.	80.10
" "	N 89° 34' E	80.40	611	80.40
" "	N 89° 2' E	79.95	1.12.	
E. "	South	485.89		485.89
Convergences				
Totals .				
		12.92	485.89	81.08 480.00
				482.92 480.00
Error in Lat. & Departure.				
		2.97	108	

v

For General description see.
Subdivision of T. 25 S., R. 37 P.

Hubert D. Page,
George C. Snow
U.S. Deputy Surveyor.

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Final Oaths of Deputy Surveyors and their Assistants.

LIST OF NAMES.

A list of the names of the individuals employed by

....., United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of

showing the respective capacities in which they acted:

....., Chainman.

....., Chainman.

....., Moundman.

....., Moundman.

....., Axman.

....., Axman.

....., Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted

....., United States Deputy Surveyor, in surveying all those parts or portions of the

..... of the base and meridian, of which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for

....., Chainman.

....., Chainman.

....., Moundman.

....., Moundman.

....., Axman.

....., Axman.

....., Flagman.

Subscribed and sworn to before me this

day of 189



Final Oath of United States Deputy Surveyor.

I, United States Deputy Surveyor solemnly swear that, in pursuance of instructions received from United States Surveyor General for bearing date day of 189 , I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of

..... of the and meridian, in the which are represented by the foregoing field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for and in the specific manner described in the field notes, and that the foregoing are the true field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor
Subscribed by said , United States Deputy Surveyor, }
and sworn to before me this day of 189 . }



A P P R O V A L.

Office of the United States Surveyor General,

Seth Ladd, May 26th, 189

The foregoing field notes of the survey of the tract bounded by the Township 28 North, Range 3 West of the Palisades Base & Meridian, etc., etc.

execute
Robert D. Page & George L. Swan
under his Contract No. 209, dated December 26, 1896, having critically examined, the necessary corrections and explanations made, the said field notes, and the survey they describe, are hereby approved.

Jacob J. Blodell
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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BOOK A.250

No. 3 R.

FIELD NOTES

OF THE SURVEY OF

The
 Subdivision
 of
 Township No 25 south.
 Range No 3 West.

Of the Salt Lake Base and Meridian,

for the State of Utah

AS SURVEYED BY

Hubert D. Page and George C. Swan, United States Deputy Surveyors,
 Under their Contract No. 209, dated December 26th, 1896.

Survey commenced July 6th, 1897

Survey completed July 13th, 1897

(1319-2,500.)

Salt Lake 12-42-92 ✓
 " during 5-50 ✓

Retirement Contract Sats. 5-04-30 ✓
 " " N. Polys. 3-00-45 ✓

Names and Duties of Assistants.

James M. Lenty. Chairman
James Holdaway: chairman
Douglas A. Swan Jr. chairman
Owen A. Snoot Jr. chairman
James M. Lenty. roundman
James Holdaway roundman
Samuel MacLean Alman Charles A. Cannon Jr.
For preliminary affidavits see book B.

Volume

#

R0250

BOOK A-250

INDEX DIAGRAM.

Township *Range*

6	5	4	3	2	1
7	8	9	10	11	12
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19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page.....

Preliminary Oaths of Assistants.

WE, _____ and _____

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level chain upon even and uneven ground, and plumb the tally pins either by sticking or dropping the same; we will report the true distance to all notable objects, and the true lengths of all lines that we are measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of _____, Chai _____

Subscribed and sworn to before me this _____
day of _____, 189 _____ }



WE, _____ and _____

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of _____, Moun _____

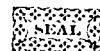
Subscribed and sworn to before me this _____
day of _____, 189 _____ }



WE, _____ and _____

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of _____, Ax _____

Subscribed and sworn to before me this _____
day of _____, 189 _____ }



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability in the survey of _____, Flagm _____

Subscribed and sworn to before me this _____
day of _____, 189 _____ }



Retracement of subdivision of T. 25 S., R. 37 W.

July 6, 1897

Preliminary to commencing the subdivision of this Twp. on account of error discovered in the S. body, beyond the allowable limits prescribed by the Manual of Instructions we therefore proceed to retrace.

From the cor. of Twp. 24 and 25 S., R. 37 W. on a blank line along the N. body of sec. 1: at 39.95 chs. we find the $\frac{1}{4}$ sec. cor. S. 56 deg. dish. and at 79.95 chs. the cor. of secs. 1 and 2. S. 112 deg. dish. the course of this line is therefore S. $89^{\circ} 12'$ W.

Hence we run S. on a blank line betw. secs. 1 and 2: at 40.80 chs. we find the $\frac{1}{4}$ sec. cor. and at 81.63 chs. the cor. of secs. 1, 2, 11 and 12. We continue our line S. and at 40.00 chs. after diligent search find no trace of old $\frac{1}{4}$ sec. cor. Set temp $\frac{1}{4}$ sec. cor. from the cor. of secs. 1, 2, 11 and 12.

We run W. on a blank line betw. secs. 2 and 11: at 39.75 chs. we find the $\frac{1}{4}$ sec. cor. and at 79.57 chs. the cor. of secs. 2, 3, 10 and 11.

Hence we run S. on a blank line betw. secs. 10 and 11: at 40.33 chs. we find the $\frac{1}{4}$ sec. cor. and at 80.70 chs. the cor. of secs. 10, 11, 14 and 15.

Hence we run S. on a blank line betw. secs. 11 and 14: at 40.00 chs. after diligent search find no trace of old $\frac{1}{4}$ sec. cor. Set temp $\frac{1}{4}$ sec. cor.

From the cor. of secs. 10, 11, 14 and 15, S. on a blank line betw. secs. 14 and 13: at 41.20 chs. we find the $\frac{1}{4}$ sec. cor. N. 20 deg. dish. and at 82.40 chs. the cor. of secs. 14, 15, 22 and 23. N. 40 deg. dish. the course of this line is therefore S. $80^{\circ} 17'$ W.

Retracement of the subdivisions of T. 2 S. R. 3 W.

earlier.	This develops an error in measurement of 585 pds. N. and S. and corresponds with error discovered in S. body, which proves the correctness of our work. Hence we run N. of 17' S. bet. secs. 14 and 15.
10.50	Accord. soil gravelly. Top of spur projects N.
17.50	Bottom of ravine 30 ft. deep course N.
18.00	Wood road. bears N. and E.
27.00	Top of spur projects N.
41.70	Descent over rolling foothills The 1/4 section.
46.85	Bottom of ravine course N.
74.50	Wood road. bears N. and E.
82.40	The cor. of secs. 10, 11, 14 and 15. Land mountainous. Soil stony and gravelly: 2 nd and 4 th rates. No timber.
	Mountainous land 82,400 pds.
6.	bet. secs. 11 and 14, reoccupy line Accord over stony soil. Top of ridge bears N. W. and S. E. Descent under scattering cedar. Wood road bears N. W. and S. E.
37.50	Bottom of ravine course N. W. ascend.
37.75	Reestablish 1/4 sec cor. as follows: Soda Brachyte 14 x 9 x 7 ins., 10 min. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1/2 ft. high N. of cor. Only impracticable, after diligent search no trace of old 1/4 cor can be found.
46.00	Land mountainous. Soil stony: 4 th rate. Scattered cedar, scattering.
	Mountainous land 40,000 pds.

Retracement of the subdivisions of T. 25 S., R. 3 W. Continued.

chains.	From the cor. of secs. 10, 11, 12 and 13, N. bkt. secs. 10 and 11, Descend over rolling foot hills soil stony and gravelly. Top of low spur projects N. wagon road. bears N. and E. The $\frac{1}{4}$ sec. cor. The cor. of secs. 2, 3, 10 and 11. Land rolling Soil. stony and gravelly; 2 nd and 4 th rates. No timber
39.82	S. bkt. secs. 2 and 11. ascends over rolling land. soil stony. The $\frac{1}{4}$ sec cor Begin steep ascent
45.00	Top of ridge bears N.E. and S.W. descend along S. side of ridge
48.00	ascend along S. side of ridge
57.00	Top of ridge bears. S.E. and N.W.
62.00	descend
68.30	Bottom of ravine and wash course N.W. ascend
79.57	The cor. of secs. 1, 2, 11 and 12. Land mountainous, Soil stony; 4 th rate: No timber Mountainous land
	79.57 obs.
7.50	S. bkt. secs. 11 and 12. descend. soil stony Bottom of ravine 100 ft deep. course N.W. ascend under scattering cedars.
40.00	Set a Brachyte stone 15 x 10 x 9 in., 11 lbs. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face and raise a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high W. of cor. Pit impracticable.

Retracement of the Subdivisions of T. 25 S. R. 3 W., Com.

		<p>Lands, mountainous. Soil, stony; is salt. Timber Cedars scattering. Mountainous land</p>	40.00 acres.
		<p>From the cor. of secs. 1, 2, 11 and 12, N. bot. secs. 1 and 2, Accord. soil stony, rolling land. Top of spur projects N.W. descend. Bottom of ravine 100 ft. deep, and, dry wash course N.W. ascend. The $\frac{1}{4}$ sec. cor. which is a trachyte stone $6 \times 12 \times 12$ firmly set and marked $\frac{1}{4}$ on N. face</p>	
	5.00	Bottom of ravine 100 ft. deep, course, N.W. Accord over rolling land.	
	15.00		
	40.83	The cor. of secs. 1 and 2 N. bot., Pps. Land mountainous. Soil stony; is salt. No timber.	
	54.00	Mountainous land,	81.63 acres.
	81.63		
		<p>North boundary of T. 25 S. R. 3 W.</p>	
		<p>N. $89^{\circ} 12' E.$ along N. boty. sec 1 descend. soil stony.</p>	
	18.00	Top of spur bears N.W. and S.E.	
	27.00	Bottom of ravine " wash 20 ft. deep, course, N.W.	
	40.00	The $\frac{1}{4}$ sec. cor. which is a trachyte $6 \times 5 \times 9$ is above the ground firmly set and marked $\frac{1}{4}$ on N. face	
	51.00	Top of spur projects N.W. cedar, cedar.	
	63.00	Bottom of ravine 200 ft. deep dry wash. course N.W.	
	79.95	The cor. of Pps. 24 & 25 S. R. 3 W. Land mountainous. Soil stony; is salt. Timber, Cedars. Mountainous land	79.95 acres.
			July 8th 1897

Subdivision of T. 25 S., R. 37 E., -Continued.

commenced July 8th 1897
and with the instrument
described in Book "B." page 1 of contract
No. 209.

At the standard cor. of secs. 35 and 36.
T. 25 S. R. 37 E. established by us

Lat. $38^{\circ}36' N.$, Long. $112^{\circ}08' W.$. We set
off $38^{\circ}36' N.$ on the lat. arc: $22^{\circ}23' N.$
on the dec. arc; and at 4 p.m. l.m.t.
determined with the solar a true
meridian and mark a point thereof
with a stake driven in a stake
firmly set in the ground 5 chains
N. of the cor.

July 8th, 1897.

July 9th, 1897 At 6 hrs. 16 m. a.m. l.m.t.
we observe Polaris at eastern elonga-
tion in accordance with Manual
of Instructions, and mark a point
in the line thus determined. we
a plug driven in the ground 5 chs.
N. of my station.

At 6 hrs. 30 m. a.m. l.m.t. we lay
of the azimuth of Polaris $1^{\circ}35'$ to
the west. the true meridian thus
determined falls on the point de-
termined by p.m. solar observa-
tions. July 8th, 1897.

At 7 a.m. l.m.t. we set off $38^{\circ}36' N.$
on the lat. arc: $22^{\circ}19' N.$ on the dec.
arc; and determine a true meridian
with the solar which falls on a mark
on the true meridian established
by Polaris observations.

The solar apparatus by p.m.
and a.m. observations defines
position of the true meridian
established by Polaris observations;
therefore we conclude the ad-

Subdivision of T. 26 S., R. 3 W.

justments of the instrument are satisfactory.

Giving to local attractions can get no satisfactory magnetic readings.

From the standard cor. already described, we will,

N. 0°, 1' H. bet. sec. 35 and 36.

Ascending along the N. slope of a ridge through scattering cedars.

40.00 Set a Graduated stone 18x10x10 in., 12 in. in the ground for sec. cor. marked $\frac{1}{4}$ on N. face, and raised a mound of stones 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor. Still impracticable.

49.00 Top of ridge. bears N. E. and S. W. Ascending

56.00 Bottom of ravine 100 ft. deep, course: N. E. Ascending

60.00 Set a graduated stone 24x10x8 in., 18 in. in the ground for cor. to sec. 25, 26, 35 and 36, marked with 1 notch on S. and E. edges, and raised a mound of stones 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. Still impracticable, land mountainous, soil stony, no water. timber. Cedars.

Mountainous land

80.00 Obs.

6. on a random line bet. sec. 25 and 36

54.00 Set a temp. $\frac{1}{4}$ sec. cor.

66.00 Impracticable perpendicular cliffs 600 ft. high on the N. side of canon 1000 ft. deep. The cor. of secs 25 and 36 L. bdy. of T. 25 S. R. 3 W. being plainly visible, and to determine the distance across the canon, W.

Subdivision of T. 25 S., R. 3 W., continued.

	Praise set a flag on line: then measure a base of 20.00 chained to a point from which the flag bears N. $45^{\circ} 02'$ E.; from the flag the S. end of base bears S $44^{\circ} 58' W.$; therefore the distance is tangent $45^{\circ} 02' \times$ base or $1.0012 \times 20.00 = 20.02$ chs. which added to 60.00 chs. makes,
80.02	Entered N. and S. line at the cor. of seccts. 25 and 36 E. bdy. T. 25 S., R. 3 W. Then westward
	N. on a true line betw. seccts. 25 and 36.
	Descending
4.15	Impassable perpendicular cliffs 1000 ft. high. E. side of canon 1000 ft. deep bears N. N. and S. E.
10.50	Estimated dist to Monroe creek. 15 lks. wide course N. N.
	Ascending.
20.02	Point of triangulation
31.85	Top of ridge bears S. E. and N. N.
	Descending
40.01	Set a Pringle stone 18x9x8 ins., 13 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high N. of cor. Pile impracticable
51.85	Broad, 5 lks. wide course N. E.
	Bottom of ravine 500 ft. deep course N. E.
	Ascending
54.50	Wood road bears N. E. and S. W.
58.00	Top of spur Descending
67.00	Bottom of ravine 100 ft. deep, course N. E.
	Ascending
- 80.02	The cor. of seccts. 25, 26, 35 and 36. Land, mountainous Soil, stony: $\frac{1}{4}$ calc. No timber.
	Mountainous land \$0.2 per acre
	Note.—Sky being overcast could take

Subdivision of T. 23 S., R. 3 W. - Con.

no observations for lat this d

9th 1897

July 10. At 7 a.m. I. m.t., we set off $38^{\circ}37' N$
and the lat. arc. $92^{\circ}11'30'' N.$ on the decl. arc.
and determine a true meridian with
the solar at the cor. of sec. 25, 26, 35 and 36.
Hence we run

- 40.00 N. on a random line bet. sec. 26 and 35;
Set a temp $\frac{1}{4}$ sec. cor.
80.12 Intersect N. and S. line of 9 lbs. north of the
cor. of sec. 26, 27, 34 and 35; which is a Tra-
phyte stone $6 \times 14 \times 11$ ins., above the ground
marked and witnessed as described by
the Surveyor General.
Hence we run.
N. $89^{\circ}56' E.$ on a true line bet. sec. 26 and 35;
Ascending through cedar, over stony soil,
27.00 Top of ridge bears N. & S. descending
35.50 Leave cedar enter dense undergrowth
40.06 Set a Traphyte stone $16 \times 10 \times 10$ ins., 12 ins.
in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on
N. face, and raise a mound of stones 2 ft.
base $1\frac{1}{2}$ ft high N. of cor. Site impracticable.
46.50 Head of native course N. E.
Ascending along N. N. slope, through
scattering cedar,
66.00 Top of ridge, bears N. E. and S. W.
73.00 Begin descend. leave cedar,
80.12 the cor. of sec. 25, 26, 35 and 36.
Land mountainous.
Soil, stony: 4th salt.
Prairie cedar
mountainous land 80.12 elev.

N. 0° 1' N. bet. sec. 25 and 26

Descending

- 67.5' Ledges bears N. E. and S. W.
9.00 Top of ridge bears. N. E. and S. W.
Descending through scattering cedar and
dense undergrowth

Subdivision of T. 2 S., R. 3 W.—Continued

Station	
19.50	Bottom of ravine 100 ft. deep, course N.E. Ascending.
26.00	Top of ridge bears E. $\frac{1}{2}$ W. descending along W. side of ravine
40.00	Set a Trachyte stone 20 x 10 x 8 ins., 14 ins. in the ground for 14 sec. cor. marked 14 on W. face, and raise a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
46.25	Foot of mountain bottom of canon Monroe creek 15 lbs. wide, course N.N.W.
60.50	Wagon road to Monroe, bears N.W. 3 E.
65.00	Cliffs, N.E. S.E. Ascending along N. slope of mountain over slide trachyte rock
70.50	Leave loose rock
80.00	Set a Trachyte stone 24 x 10 x 8 ins., 10 ins. in the ground for cor. to sec. 23, 24, 25 and 26. marked with 2 notches on S. and 1 notch on E. edges, and raise a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. Land. mountainous.
	Soil, stony; 1 $\frac{1}{2}$ rate.
	No timber.
	Mountainous land 80.00 plus.
	at this corner set off 22° 09' N. on the dist arc. and at 12 hrs. 5 m. C.M.T. observed the sun on the meridian the resulting lat. is 38° 38' N.
40.00	S. on a random line bet. secos. 24 and 25; set a temp. 14 sec. cor.
80.07	Intersect N. and S. line 6 lbs. S. of the cor. of secos. 24 and 25. or E. body, Tp. 2 S. S. R. 3 W. Thence W. sec.
	S. 89° 57' W. on a true line bet. secos. 24 and 25, along N. slope of mountain.
13.00	Begin rapid descent into canon.

Subdivision of T. 25 S., R. 3 W. Cont'd

Distance	
24.00	Old trail or road bears S.E. and N.E.
28.00	N. Branch Mountain creek (Past creek) 7 ft. wide, flows S.W. bottom of canon 50 ft. deep. Course S.E. and N.E.
35.00	Point of stony spur, slopes S.
38.00	Mouth of ravine course S. Begin ascend through dense undergrowth.
40.00 ^{1/2}	Set a trachyte stone 18 x 10 x 8 ins 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raised a mound of stones 2 ft. base 1 1/2 ft. high. N. of cor. Pitt and practicable.
43.50	Cedar cedar.
61.20	Top of ridge bears W. and S.
62.00	Descending
74.00	Leaves cedar. rapid descent.
80.07	The cor. of sect. 23, 24, 25 and 26. Land mountainous. Soil stony. 4 th val.
	Timber cedar.
	Mountainous land 80.07 sec.

July 10th 1897

July 11th

At 7 a.m. C.M.T. we set off 38° 38' N. on
the lat. arc. 22° 03' 30" N. on the dec. arc.
and determine a true meridian
with the solar at the cor. of sect. 23,
24, 25 and 26.

True N.E. sun.

8.89° 56' N. on a random line bet. secs. 23 and 26.
Set a temp. 1/4 sec. cor.

Intersect N. and S. line 11 mts. S. of the cor
of secs. 22, 23, 26 and 24. which is a
trachyte stone 11 x 11 x 9 ins. above the
ground marked and witnessed as
described by the Surveyor General
Prince Edward

8.89° 59' 10" on a true line bet. secs. 23 and
26 ascending through scattering cedar.

Subdivision of T. 25 S., R. 3 W., Continued.

Chains	
15.25	Top of ridge, bears N. & S. descending.
23.00	Bottom of ravine 70 ft. deep course N.; leave cedar, enter dense undergrowth. Soil very stony.
	Ascending.
39.28	Top of ridge, bears S. and N.
40.05	Set a Brachyte stone 16x10x8 in., 12 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raised a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Quite impracticable.
	Descending.
52.00	Bottom of ravine 70 ft. deep course N.
	Descending.
59.85	Point of Spur slopes. N. descending.
65.00	Cliffs and ledges, bears N. N. and S. E.
66.50	Foot of cliffs and ledges.
68.00	Moraine creek 10 lbs. wide, flows N. N.
	Bottom of Moraine canon course N. N. and S. E.
74.00	Hagon road to Moraine, bears N. N. and S. E.
	Begin ascend.
80.11	The cor. of secs. 23, 24, 25 and 26. Land mountainous. Soil, stony, 4th salt River, cedar. Mountainous land
	80.11 P.M.

N. 0' 1' W. bot. secs. 23 and 24.

Descending along N. slope of mountain over stony soil

30.00	Foot of ledges.
35.00	Top of ledges, bears N. N. and S. E.
35.25	Leave ledges.
40.00	Set a Brachyte stone 18x10x6 in., 10 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raised a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Quite impracticable.
44.00	Top of ridge, bears N. and W.

Subdivision of T. 25 S., R. 3 W.-Cor.

Plans	
45.44	Ledges, betw. E. and W., descend through dense undergrowth and scattering cedars.
65.00	Wood road, bears N. 15° E. and S. 85°
79.00	Bottom of small ravine 40 ft. deep course N. W.
80.00	Set a Trachyte stone 24 x 10 x 8 ins., 10 ins. in the ground for cor. of sec. 13, 14, 23 and 24. marked with 3 notches on S. and 1 notch on E. edges. and raise a mound of stones 2 ft. base 1 1/2 ft. high N. of cor. Pile impracticable from which
	A cedar 8 ins. diam. bears S. 75° W. 26 lbs. dist. marked T. 25 S. R. 3 W. S. 25 B.T.
	A cedar 6 ins. diam. bears N. 60° E. 30 lbs. dist. marked T. 25 S. R. 3 W. S. 13 B.T.
	No other tree within proper distance.
	Land, mountainous.
	Said, stony. 4 th rate.
	Timber scattering cedars.
	Meskalarius land.
	at this cor. set off 22° 01' N. on the decl. arc. and at 12 hrs. 5 m. l.m.t. observed the sun on the meridian the resulting lat. is 38° 39' 30" N.
	80.00 plus,
40.00	N. 89° 54' E. on a random line bet. sec. 13 and 24.
	Set a stone 1/4 sec. cor.
79.47	Intersect N. and S. line 7 lbs N. of the cor. of sec. 13 and 24 E. bdy. of Tp. 25 S. R. 3 W.
	Then N. 2 sec.
	N. on a true line bet. sec. 13 and 24
	Descending through dense undergrowth.
7.00	Head of ravine, course N. ascending
20.00	Top of spur slopes N. descending
	Enter scattering cedars.
38.00	Bottom of ravine 100 ft. deep course S. W.
	Ascending
39.98 1/2	Set a Trachyte stone 14 x 10 x 8 ins., 10 ins. in the ground for 1/4 sec. cor. marked

Subdivision of T. 2 S., R. 3 W. - continued.

- 100 ft. 1/4 on N face and raises a mound of
2 ft. base, 1 1/2 ft. high, N. of cor.
Pits impracticable.
- 60.00 Top of ridge bears. N.E. and S.W. descend
- 79.97 The cor. of secs. 13, 14, 23 and 24.
Land mountainous.
stony: 4th rate.
Timber cedars scattering.
Mountainous land. 79.97 chs.

July 11. 1897

12: At 7 a.m. l.m.t. He set off 38° 39' 1" on the lat. arc: 21° 55' N., on the decl. unc. and determine a true meridian the solar at the cor. of secs. 13, 14, 23 and 24.
Hence He run
N. 89° 59' W. on a random line bet.
14 and 23.

39.97 Intersect N. and S. line 2 eks. N. of
1/4 sec. cor. which is a Prachytes
6 x 13 x 9 ins. above the ground
marked and witnessed as described
the Surveyor General.
Hence He run.

C. on a true line bet. secs. 14 and 23.
Ascend over stony soil.

13.00 Top of spur projects S. W. Descend.

22.00 Wood road. bears. S.W. and N.E. Ascend.

35.00 Top of spur projects N. and wood
S. bears S.E. and N.W. Descend.

39.00 Bottom of ravine course. N.W.

- 39.97 The cor. of secs. 13, 14, 23 and 24.
Land mountainous.

stony: 4th rate.

No Timber.

Mountainous land 39.97 chs.

N. 0° 0' W. bet. secs. 13 and 14.

Ascend through scattering cedars
over stony soil.

Subdivision of T. 25 S., R. 3 W.

- rains.
- 9.75 Top of ridge bears E. and N. Descend.
- 20.00 Bottom of ravine 75 ft. deep, course N. Ascend.
- 30.00 Top of ridge bears N.E. & S.W. Descend.
- 35.00 Bottom of ravine 60 ft. deep, course S. W. Ascend.
- 40.00 Top of ridge, bears E. and N.
Set a Trachyte stone $14 \times 10 \times 10$ ins., 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face, and raised a mound of stone 2 ft. base, 1 1/2 ft. high, N. of cor. Site impracticable.
- Descend over rolling land.
- 57.25 Wood road to bottom of ravine course N.
- 63.75 Wood road bears E. and N.
- 68.00 Leave scattering cedars.
- 72.00 Top of ridge bears E. and N..
- 80.00 Set a Trachyte stone $17 \times 10 \times 8$ ins., 11 ins. in the ground for cor. of secs. 11, 12, 13, and 14. marked with 4 notches on S. and 1 notch on E. edges, and raised a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Site impracticable. Land mountainous.
- Soil stony: 4th rate.
- Timber, cedars scattering.
- Mountainous land. 80.00 chs.
- July 12, 1897 At this cor we set off
21° 52' N. on the decl. arc. and at
12 hrs. 05 m. L. M. T. observe the sun
on the meridian the resulting int.
is 38° 39' N.
-
- C. on a random line bet. secs. 12 and 13.
- 40.00 Set a temp. 1/4 sec. cor.
- 80.00 Intersect N. and S. line 1 ek. N. of the cor. of secs. 12 and 13 C. body of T. 25 S., R. 3 W.
- Then end the run.

Subdivision of T. 25 S., R. 3 W. continued.

hains. N. on a true line bet. sec. 12 and 13.

Descend along N. W. slope of ridge,
stony.

7.50 Inter scattering cedar.

32.00 Leave cedar.

40.00 a Trachyte stone $16 \times 8 \times 6$, vis., 12
in the ground for $\frac{1}{4}$ sec, cor.
marked $\frac{1}{4}$ on N. face, and raised
a mound of stone 2 ft. base, $\frac{1}{2}$ ft.
high N. of cor. Pit impracticable.

80.00 The cor. of secs. 11, 12, 13 and 14.

Land mountainous.

Soil stony; 4th rate.

Dinner cedar, scattering.

Mountainous land 80.00 obs.

July 12, 1897,

July 13, 1897 At 7 hrs. 30 m. a. m. l. m. t.

We set off $38^{\circ} 39' N$ on the lat. arc:

$21^{\circ} 46' N$. on the decl. arc; and
made a true meridian with
solar at the cor. of secs. 11, 12,
13 and 14.

Hence we run.

N. on a random line bet. sec. 11 and
14.

29.60 Intercept N. and S. line 2.40 obs.

of the $\frac{1}{4}$ sec. cor. set by us.
Hence we run

E. on a true line bet. sec. 11 and 14,
ascend over stony soil, through
scattering cedar. Along N. W. slope
of mountain.

39.60 Intercept N. and S. line 2.40 obs. N. of
the cor. of secs. 11, 12, 13 and 14.

The falling is beyond the allowable
prescribed by the Manual
of Instructions and corresponds
errors, discovered in our
accrent. We therefore set
closing cor. for secs. 11 and 14.

Subdivision of T. 25 S., R. 3 W. - Continue

as follows:

Set a Prachyte stone 16 x 9 x 9 in., 12 in. in the ground for crossing cor. of secs. 11 and 12. marked C.C. on it, with 4 groove on S. and 1 groove on E. faces and raise a mound of stones 2 ft. base 1/2 height N. of cor. The oblique marks on previously established cor. referring to secs. 11 and 12, illegible.

Land mountainous.

Soil, stony; 4th rate.

Trees, Cedars scattering.

Mountainous land. 39.60 Chs.

From the cor. of secs. 12 and 13

N. on a random line bet. secs. 11 and 12.

40.00 Set stone. 1/4 sec. cor.

43.10 Intersect the 1/4 sec. cor. previously set by us. The distance 43 rods, corresponds with errors discovered in our net trace.

Vance W. run

S. on a trueline bet. secs. 11 and 12
Ascend over stony soil. Through dense undergrowth

Set a Prachyte stone 14 x 12 x 9 in., 10 in. in the ground for 1/4 sec. cor. of sec. 12. marked 1/4 on N. face, and raise a mound of stones 2 ft. base, 1/2 height N. of cor. Pile impracticable.

20.00 Top of ridge, bears E. & W. Descend, cedar scattering, cedars.

37.50 Ravine 100 ft. deep, course N. N.
Cedar, cedars. Ascend.

... N. E. Crossing cor. of secs. 11 and 14.

43.10 N. E. cor. of secs. 12 and 13.
X. in mountainous.

Soil, stony; 4th rate.

Trees, Cedar, scattering.

Mountainside 43.10 Chs.

Subdivision of T. 25 S., R. 3 W. - Continued

axis from the cor. of secs. 1 and 12 on E. bdy.
of T. 25 S., R. 3 W.

Hence we run

N. on a random line bet. secs. 1 and 12

40.00 temp $\frac{1}{4}$ sec. cor.

80.02 Intersect N. and S. line 3, 10 chs. S. of
the cor. of secs. 1, 2, 11 and 12.

The falling is beyond the limits pre-
cribed by the Manual of Surveying
and corresponds with errors
discovered in our retracement.

Therefore we set a closing cor. for
1 and 12 as follows.

a trachyte stone 16 x 11 x 9 ins., 12
in the ground for closing cor.
of secs. 1 and 12 marked L. L. on E,
1 groove on E. and 5 grooves
on S. faces, and raise a mound of
2 ft. base $1\frac{1}{2}$ ft. high, E. of cor.

It is impracticable. The obliterated
marks on old cor. that pertain to
1 and 12

Hence we run

on a true line bet. secs. 1 and 12

Ascend over stony soil

80.0 Top of ridge bears N. N. and S. E.

along N. slope of ridge

15.00 Old wood road bears N. N. and S. E.

scattering cedar and pine

40.01 A trachyte stone 15 x 10 x 6 ins., 10
in the ground for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on N. face and raised
a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. N.
of cor. It is impracticable
on which.

A cedar 8 ins. diam. bears N. 5° E.
8 ins. diam. marked $\frac{1}{4}$ S. 1 B.T.

A pine 6 ins. diam. bears S. 85° W.
48 ins. diam. marked $\frac{1}{4}$ S. 2 B.T.

48.00 Bottom of ravine course N. N.
ascend.

Subdivision of T. 25 S., R. 3 E., Concluded.

claims.	
73.75	Up of ridge bears N. W. and S. E. Described.
- 80.02	The cor. of secs. 1 and 12 E. bdy T. 25 S. R. 3 E.
	Land mountainous
	Soil stony: 4 th rate
	Timber, cedar and pine.
	Mountainous land 8002 chs.
	July 13, 1897.

General description

The portion of this township embraced in our survey is mountainous.

It is unfit for agricultural purposes, although most of it is good grazing land as the grass grows abundantly during the spring months.

The soil is of a stony and gravelly nature.

In the eastern portion, the mountains are quite heavily timbered with cedar, and along the bottoms of canons the undergrowth is very dense.

Monroe creek, the water of which is clear and pure, flows through secs. 23, 25, and 26, and with several tributaries is the source of water supply for the town of Monroe.

There is considerable iron ore in this portion of the township and magnetic readings are unreliable.

There are no settlers in this portion of the township. We learn through inquiry that Mr. Thomas Hinch was a resident of Monroe. It is much probable that Mr. Hinch's entry is located on land previously surveyed as Hinch's

were no indications of any
claims or improvements to the
extent mentioned in this portion
of the township.

George O'Sullivan

Collier's boundary at this Pk.
do not close within the proposed
limits.

Therefore the pl. line as follows:
We begin at the cor. of sec.
1st & on the N. side of T. 25 S., R. 3. th.
thence N. 6° E., run

West on a blanty line, and at 40.00
chs. after diligent search no old
1st sec. cor. can be found.

80.40 chs. we find the cor. of sec.
2nd 3. S. 61st dist. which is a
stone 4 x 6 x 6 ins. above ground
firmly set and marked with
3 notches on the E. and 1 notch on
the N. edges.

The course of this line is therefore
S 89° 34' W.

Thence we run
West on a blanty line. 40.00 ins. after
diligent search no old 1st sec. cor. can
be found. and at 80.10 chs. we
find the cor. of sec. 3rd 4.
S. 11th dist. which is a blachyte
stone 8 x 6 x 6 ins. above ground
firmly set and marked with 3 notches
on the E. and N. edges.

The course of this line is therefore

Instrument of 91. Id. of P. 255, R. 325

3800 ft.

This being the closing within the
stated limits, therefore we dis-
continue the retracement.

Hubert D. Page
George D. Snell
Asst. Deputy Surveyor

Volume

#

R0250

Final Oaths of Deputy Surveyors and their Assistants.

LIST OF NAMES.

A list of the names of the individuals employed by

....., United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of

showing the respective capacities in which they acted:

....., *Chairman.*

....., *Chairman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted

....., United States Deputy Surveyor, in surveying all those parts or portions of the

..... of the base
and meridian, of which are represented
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
corner monuments established, according to the instructions furnished by the United States Surveyor
General for

....., *Chairman.*

....., *Chairman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

Subscribed and sworn to before me this

day of, 189



Final Oath of United States Deputy Surveyor.

I, _____, United States Deputy Surveyor solemnly swear that, in pursuance of instructions received from _____ United States Surveyor General for _____, bearing date of _____ day of _____, 189_____, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____

of the _____ and _____ meridian, in the _____, which are represented in the foregoing field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and the foregoing are the *true* field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Subscribed by said _____, United States Deputy Surveyor, _____
and sworn to before me this _____ day of _____, 189_____. }



APPROVAL.

Office of the United States Surveyor General,

Salida Colorado, Colo., May 26th, 1896

The foregoing field notes of the survey of *the Subdivisions of Township
25 South Range 3 West of the Salida Colo. Base & Meridi-*
an

Robert Page & George L. Evans
executed
under his Contract No. 209, dated December 26, 1895, having
critically examined, the necessary corrections and explanations made, the said field notes, and the surveys
they describe, are hereby approved.

Jacob T. T. E. L.

United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____
has been correctly copied from the original notes on file in this office.

United States Surveyor General

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BOOK A-250

H.J.B.

FIELD NOTES

OF THE SURVEY OF

The
 North boundary
 of
 Township No. 24 South
 Range no. 1 West

Of the Salt Lake Base and Meridian,

In the State of Utah

AS SURVEYED BY

Hubert D. Page and George C. Swan, United States Deputy Surveyors
 their
 Under this Contract No. 209, dated December 26th, 1896.

Survey commenced July 26th, 1897.

Survey completed July 29th, 1897.

(1310-2,500.)

N. Boundary 5-76-71
 County - 5-04

Names and Duties of Residents.

James M. Lentz, Chairman

James Holdaway, Chairman

Douglas A. Swan Jr. Chairman

Albert A. Sonnen Jr. Chairman

James M. Lentz. Moderator

James Holdaway Moderator

Samuel Nathan Green, Walter A. Gardner ^{Greens and} ~~and~~ Gardner

For preliminary affidavits seal out C-

BOOK A-250

INDEX DIAGRAM.

Township _____, *Range* _____

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page _____

Preliminary Oaths of Assistants.

WE, and

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will leve chain upon even and uneven ground, and plumb the tally pins either by sticking or dropping the same; we will report the true distance to all notable objects, and the true lengths of all lines that we assi measuring, to the best of our skill and ability, and in accordance with instructions given us in the surv

, Chain

, Chain

Subscribed and sworn to before me this }
day of , 189 . }



WE, and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishme corners, according to the instructions given us, to the best of our skill and ability, in the survey of

, Mound

, Mound

Subscribed and sworn to before me this }
day of , 189 . }



WE, and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of co and other duties, according to instructions given us, to the best of our skill and ability, in the surv

, Axm

, Axm

Subscribed and sworn to before me this }
day of , 189 . }



I, , do solemnly swear that I will well and tr perform the duties of flagman accordiing to instructions given me, to the best of my skill and ability in survey of

, Flagm

Subscribed and sworn to before me this }
day of , 189 . }



North boundary of P. 24 S., R. 1 W.

NOTE:

Knowing from the previous survey of the E. half of P. 24 S., R. 2 W. and the W. half of P. 24 S., R. 1 W., that a random line West from the established cor. of Pps 23 and 24 S., R. 1 E. and 1 W. on the Salt Lake meridian as per Special Instructions, would fall beyond allowable limits prescribed by 1 Manual of Instructions. We therefore ran at the established cor. of Pps. 23 and 24 S., Rs. 1 and 2 W.,

Survey commenced July 26th 1897 and executed with the instruments described in book "B" page 1.

To set the solar apparatus by comparing its indications relative from solar observations made during a.m. and p.m. hours with a true meridian determined by observations on Polaris. We proceed as follows:

At the cor. of Pps. 23 and 24 S., Rs. 1 and 2 W., Lat. $38^{\circ}46'N.$, Long. $112^{\circ}00'26''W.$, we set off $38^{\circ}46' N.$ on the latitude; $19^{\circ}14' W.$ on the decl. arc; and at 14 p.m. f. m.t. determine with the solar a true meridian and mark a point thereof on a stake firmly set in the ground 5 chs. N. of the cor.

At $11^{\text{th}} 44^{\text{m}} \text{ p.m. f. m.t.}$ we observe Polaris at eastern elongation, in accordance with the Manual of Instructions and mark a point in the line thus determined by a stake driven in a stake firmly set in the ground 5 chs. N. of our station.

July 26th 1897,

North boundary of David R. H. Mountain

July 27th 1897.
At 6^{hrs} 50^{min} A.M. C. M. T. We lay off
the azimuth of Polaris 135° to the left
the True Meridian, thus determined
falls on the granite set on the line de-
termined by p.m. solar observations
July 26th.

At 7 a.m. C. M. T. We set off 38° 16' N.
on the left arc; 19° 06' N. on the right arc; and
determined a true meridian with the
solar which falls on the mark set on
the true meridian established by Polaris
observations.

The solar apparatus by p.m. and a.m.
observations defines position of the
true meridian established by Polaris
observations. Therefore we conclude
the adjustments of the instrument are
satisfactory.

Owing to local attraction can get no
satisfactory magnetic reading.

From the Sp. cor. already described
we run
S. on a blank line along the N. side of
R. 24 S., R. 1 W., and at 38.28 obs. we find
the 1/4 sec cor. and at 78.28 obs the cor
of secs. 5, 6, 31 and 32 which is a trachyte
stone 6 x 12 x 10 ins. above the marked
as described by the Surveyor Gen-
eral.

Hence we run S. and at 40.00 obs. we
find the 1/4 sec cor. and at 80.00 obs. the
cor. of secs. 4, 5, 32 and 33. which is a
trachyte stone 5 x 10 x 7 ins. above the
ground marked as described by the
Surveyor General. witness trees having
been obliterated.

Hence we run S. and at 40.00 obs. after
diligent search no trace of old 1/4 sec.
cor can be found. We reestablish the

North-boundary of T. 24 S., R. 1 W., Continued.

1/4 sec. cor. as follows.

Set a trachyte-stone $14 \times 10 \times 9$ ins., 10 ins
in the ground for 1/4 sec. cor. marked 1/4
on N. face and raise a stone 2 ft. base
 $1\frac{1}{2}$ ft. high N. of cor. Post impracticable.

From the above 1/4 sec. cor. we run E.
on a random line along the N. bdy. of
T. 24 S., R. 1 W., setting temp. sec. and 1/4
sec. cor.s. at intervals of 40.00 chs. and
278.43 chs. intersect the Salt Lake
meridian 5.04 chs. S. of the 1/4 sec. cor. of
secs. 1 and 6 Pps. 24 S., R. 1 E. and 1 W., which
is a Sandstone $8 \times 12 \times 10$ ins. above the
ground marked 1/4 on N. face, and mound
of stone N. of cor.

The falling is beyond the limits
prescribed in the Manual of Instructions.
We therefore establish a closing
cor. for Pps. 23 and 24 S., R. 1 W. on the
Salt Lake meridian as follows:
Set a trachyte stone $15 \times 10 \times 6$ ins., 10
in the ground for closing cor. of Pps.
23 and 24 S., R. 1 W., marked C.C. on N. 24.3 on S. and 23.5
on N. faces with 6 grooves on N. S. and N. faces,
and raise a mound of stone 2 ft. base
 $1\frac{1}{2}$ ft. high N. of cor. Post impracticable.
The obliterate marks on old corner of
Pps. 23 and 24 S., R. 1 E. and 1 W., referring
to range 1 W. On account of this falling, the instance for
notes of which see book of individual notes.

July 27th 1897.

July 28th 1897.

At 7 a.m. came in the 4th off 38°46'
N. on the lat. arc: $18^{\circ}52'16''$ on the old cor.,
and determine a true meridian with
the solar at the Riverton corner of Pps.
23 and 24 S., R. 1 W. on the Salt Lake
meridian, allowing for fractional
distance in the western half mile 1/2

North boundary of T. 2 S., R. 1 W., Continued.

	Shallow, establish our random line as a true line, &
	Then westward
	W. are a brief distance back sec. 1 and 36. descend through dense undergrowth scattering cedar and mahogany. Soil stony.
17.00	Top of ridge, bears N.E. and S.W. Descend,
24.00	Ridge, bears N.E. and S.W.
30.00	Bottom of canon 400 ft. deep. course N.E. leaves cedar and mahogany. Ascend.
40.00	Set a brashite stone 20 x 10 x 8 in., 15 in. mid. in the ground for 1/4 acre, marked 1st on N. face and raised a mound of stone 2 ft. base 1/2 ft. high N.E. cor. Pile impracticable.
40.70	Top of ridge, bears N.E. and S.W. Descend,
47.00	Cliff 30 ft. high bears N. and S.
49.00	Bottom of canon 600 ft. deep. course N.E. ascend along north side of canon, cedar scattering cedar and mahogany.
57.00	Begin descent along N. side of canon. leaves cedar and mahogany cedar dense undergrowth.
64.50	Bottom of canon, course S.E. begin steep ascent
80.00	Set a brashite stone 24 x 10 x 8 in., 18 in. mid. in the ground for cor. of sec. 1, 2, 35 and 36, marked with 1 notch on E. and 5 notches on the N. edge and raise a mound of stone 2 ft. base 1/2 ft. high N. of cor. Pile impracticable.
	Land mountainous.
	Soil stony; 4th male.
	Number cedar and mahogany.
	Mountainous land 80.00 chs.
	W. beh. sec. 2 and 35.
	Ascend over stony soil.
87.00	Top of ridge bears N. and S. descend gradual slope, through scattering cedar and dense sage brush.
29.00	Wood road bears N. and S. ascend over rolling land.

North-boundary of R. 24 S., T.R. 1. N. - Continued.

Plans

- 40.00 Set a trachyte-stone 14x9x7 in., 10 lbs, in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1/2 ft. high 2 ft. of cor. It is impracticable;
- 70.00 Top of ridge bears N and S. Descend
- 80.00 Set a trachyte-stone 16x10x10 in., 11 lbs, in the ground for cor. of secos, 2, 3, 34 and 35, marked with 2 notches on E and 4 notches on the N. edges, and raise a mound of stone 2 ft. base 1/2 ft. high 2 ft. of cor. It is impracticable.

Land mountainous

Set stones & 5' pole

Spruce cedar, scattering

Mountainous land 80.00@hr.

July 28th 1847, at this cor. the sec off 18^o 46'
N. in the decl. arc; and at 12 hrs. 06 m.
1. min., observe the sun on the meridian
line, resulting lat. is. 38° 46' N.

N. lat. sec. 3 and 34

Descend over rolling land through scattering cedar

- 5.00 Begin gentle ascent
- 26.00 Top of low ridge bearing N and S. descending
- 40.00 Set a trachyte-stone 20x10x8 in., 15 lbs, in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1/2 ft. high 2 ft. of cor. It is impracticable
- 41.00 Edges and large boulders, bears N and S.
- 46.00 Bottom of ravine soft, deep coarse s. p. soil
- 49.00 Top of ridge bears N and S. Descend,
- 51.45 Bottom of ravine soft, deep coarse s. p. soil
- 61.00 Top of ridge bears N and S. Descend,
- 80.00 Set a trachyte-stone 19x15x10 in., 14 lbs, in the ground for cor. of secos, 3, 4, 33 and 34 marked with 3 notches on E, and N. edges, and raise a mound of stone 2 ft. base 1/2 ft. high 2 ft. of cor. It is impracticable.

Land mountainous.

North boundary of T. 24 S., R. 1 W.

chains	Soil, stony; 4 th rate.
	Timber, cedar scattering.
	Mountainous land
	80.00 plus

July 28th 1897.

July 29th 1897.

At 7 a.m. l. m. March off 38° 46' N.,
on the lat. arc; 18° 36' N. on the decl. arc;
and determine a true meridian with
the solar at the cor. of secs. 3, 4, 33 and 34.
Hence the run

N. bch. secs. 44 and 33.

Ascend over over rolling land, soil stony,

6.00	Top of ridge bears N. and S. descend.
24.50	Bottom of ravine 40 ft. deep, course N. ascend.
30.00	Top of ridge bears S.W. and N.E. descend.
38.43	The reestablished 1/4 sec. cor.

From this 1/4 sec. cor. we continue our line N. and set
the corners for T. 24 S., R. 1 W., at proper distances.

38.50	Bottom of ravine 20 ft. deep course N. W. ascend.
40.00	Set a trachyte stone 14x10x7 ins., 10 ins. in the ground for 1/4 sec. cor. of sec. 4 marked 1/2 on S. face and raise a mound of stone 2 ft. base 1 1/2 ft. high S. of cor. This impracticable.
42.00	Top of ridge bears N. W. descend.
78.43	The old cor. of secs. 4, 5, 32 and 32 previously described. We deliberate marks referring to T. 24 S., R. 1 W.,

80.00	Set a trachyte stone 16x11x9 ins. 11 ins. in the ground for closing corner of secs. 44 and 5. N. bch. T. 24 S., R. 1 W., marked L.L. on S. with 4 grooves on S. and 2 grooves on N. face, and raise a mound of stone 2 ft. base 1 1/2 ft. high S. of cor. This impracticable. Land mountainous.
-------	---

Soil, stony; 4th rate.

Timber, cedar scattering.

Mountainous land.	80.00 plus
-------------------	------------

March along N. bch. of sec. 5.

Ascend over rolling land through dense

North-boundary of P. 24 S. R. 11th, - continued

Shrub.	under-growth and scattering cedar.
5.0.0	Pop. of ridge bears S. 6° E. N. W. second.
16.60	Foot of slope leave cedar.
17.20	Hagon road to Segent bears N. W. S. along level leave sage brush.
21.30	Wash 15 ft. deep, 25 ft. wide in bottom of which a branch 3 ft. wide flows N. leave sage brush.
21.40	Begin second cedar, dense oak brush and scattering cedar.
33.0.0	Pop. of ridge bears N. E. and S. E. second,
38.43	The 1/4 sec. cor. of sec. 32.
40.0.0	Set a straighter stone 10 1/4 ft. 8 in., 10 in. in the ground for 1/4 sec. cor. of sec. 5 marked N. on S. face and raise a mound of stone 2 ft. base 1 1/2 ft. high S. of cor. This impracticable.
42.40	Bottom of ravine. Ridge bears come N. E. second
54.00	Pop. of ridge bears N. 65° E. and S. 65° W. over rolling land.
75.80	Pop. of ridge bears N. W. and S. E. second
78.43	The old cor. of secs. 5. 6. 31 and 32, previously described. The obliterates marks referring E. to P. 24 S. R. 11th.
80.00	Set a straighter stone, 8 1/2 ft. 8 in., 12 in. in the ground for 1/4 sec. cor. of sec. 5 and 6 N. side, 1 1/2 ft. marked C. C. on S. with 5 groove on E and 1 groove on W. face and raise a mound of stone 2 ft. base 1 1/2 ft. high S. of cor. This impracticable.
	Land mountainous.
	Soil stony; 4th rate.
	Timber cedar scattering.
	Mountainous land 80.00, etc.
	July 29, 1897. At this cor. the set off 18 3/5' N. on the old cor. arc. and at 12 hrs 06 min. 8. 7 mi. I observe the sun on the meridian the resulting lat. is 38° 46' N.

West along N. body, sec. 6,
second over rolling land through scattering

North boundary of D. 24 of T. R. 1 Th.

3 miles.	cedar, oak, spruce, Bamboo.
1300.	
30.00	Top of ridge bears N. W. decl.
38.43	The old 1/4 sec cor. sec 31.
40.00	Slope brushy place 11 x 9 x 7 min, 10 min. in the ground for 1/4 sec cor. of rec. to margin of 1/2 on S. face and want a round of about 2 ft. base 1/2 ft. high S. of cor. Plot impracticable.
54.00	Top of ridge bears N. E. and S. E. decl.
60.00	Bullion of various depth deep coarse S. H. accum.
- 76.71	The cor. of Dps 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, and 12 Th.
	Land mountainous.
	Soil stony; with walls;
	Timber cedar, scattering.
	Mountainous land. 76.71 chs.
	July 29 th 1897.

9.24 S. R. 1 2f.

Latitude, departure & closing errors.

Line designated	Bearing	True Distance	Latitude N. S.	Departure E. W.	
S. 62d. T. 24 S. R. 17f.	West	16.000			160.00
"	S. 86° 46' N.	14.33	1.16		84.36
"	S. 86° 05' N.	81.11	5.55		81.12
"	N. 89° 28' N.	80.98	.75		80.96
"	S. 88° 05' N.	70.83	1.57		70.7
R.	"	North	4415.13	445.13	
"	"	East	1176.71		1176.71
E.	"	South	11.621	1136.21	
Convergence					.53
Lat. 11					1148.88 1148.88 17.39 477.17
					448.88 17
Error in lat. 11 deg.					, .01 12 ✓

9. General description - see
Subdivision of 9.24 S. - R. 17f.

Albert E. Page
U.S. Deputy Surveyor 1.
George C. Brown
U.S. Deputy Surveyor

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Final Oaths of Deputy Surveyors and their Assistants.

LIST OF NAMES.

A list of the names of the individuals employed by _____, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of _____ showing the respective capacities in which they acted:

_____, Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____, United States Deputy Surveyor, in surveying all those parts or portions of the _____ of the _____ base and _____ meridian, _____ of _____, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for _____

_____, Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

Subscribed and sworn to before me this _____
day of _____, 189 _____. }



Final Oath of United States Deputy Surveyor.

I, _____, United States Deputy Surveyor solemnly swear that, in pursuance of instructions received from _____, United States Surveyor General for _____, bearing date of _____ day of _____, 189_____, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____

of the _____ and _____ meridian, in the _____ of _____, which are represented by the foregoing field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and the foregoing are the true field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor
Subscribed by said _____, United States Deputy Surveyor, }
and sworn to before me this _____ day of _____, 189_____. }



APPROVAL

Office of the United States Surveyor General,

Washington, D.C., May 26th, 189_____.
Salida Lake City, Illat.

The foregoing field notes of the survey of *The North Boundary of Section 24, Smith Range 1 West of the Salida Lake Case meridian, Illat.*

executed by *Robert F. Page & George L. Swan*
under their Contract No. 209, dated December 26, 189_____, having critically examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Jacob B. S. T.

United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General

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BOOK A-250

FIELD NOTES

No. 3.B.

OF THE SURVEY OF

The
 Subdivision
 of
 Township No. 23 South
 Range No 1 West.

Of the Salt Lake Base and Meridian,

In the State of Idaho

AS SURVEYED BY

Albert D. Page and George C. Livan, United States Deputy Surveyors,
 then

Under his Contract No. 709, dated Dec 26th, 1896.

Survey commenced Aug 10th, 1897.

Survey completed Sept 1st, 1897.

(1310-2500.)

Sects -	High	34-58-85	m. dis. dist.
"	low	1-43-59	36.22-44
"	Closings	33-16	1-65

Reserves - Sects -	High	7-25-25	m. dis. dist.
"	low	61.40	7.79.72 h.p.

Mined - "	E. Policy high	5-50-05	m. dis. dist.
" " "	low	36-99	6.71.72 h.p.
	Closings -	39.18	1-65

W. Policy - Retracement Conty -	5-07-01	m. dis. dist.
Subtotal - " "	4-02-95	4-02-95

Names and Duties of Assistants.

James M. Lenty. chairman.

James Holdaway chairman.

Douglas A. Savanjo. chairman.

Owen A. Snoot Jr. chairman.

James M. Lenty. moundman.

James Holdaway moundman.

Samuel Micham. admn

Charles A. Lameo. admn ^{and} flag

For preliminary affidavits see book "B".

Volume

#

R0250

BOOK A-250

INDEX DIAGRAM.

Township , *Range*

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31	32	33	34	35	36	

Meanders Page.....

Preliminary Oaths of Assistants.

We, and
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level chain upon even and uneven ground, and plumb the tally pins either by sticking or dropping the same; we will report the true distance to all notable objects, and the true lengths of all lines that we assist measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey

....., Chainm
....., Chainm
Subscribed and sworn to before me this }
day of , 189 . }



We, and
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., Moundm
....., Moundm
Subscribed and sworn to before me this }
day of , 189 . }



We, and
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of cor and other duties, according to instructions given us, to the best of our skill and ability, in the survey

....., Axm
....., Axm
Subscribed and sworn to before me this }
day of , 189 . }



I, do solemnly swear that I will well and t perform the duties of flagman according to instructions given me, to the best of my skill and ability in survey of

....., Flagm
Subscribed and sworn to before me this }
day of , 189 . }



Attachment of the body of T. 23 S., R. 1 E.

Survey Commenced August 10th 1897
and executed with the instrument
described in books A. & B.

We began at the corner of T. 23 S. R. 1 E.
which we established
Latitude $38^{\circ}46'N$ Long. $111^{\circ}53'47''W$.

At this cor. at 10h. 6m. p.m. L. m. t.,
observe Polaris at eastern elongation
in accordance with the manual
of instructions, and mark the
a point in the line thus de-
termined by a tack driven in a
wooden plug set in the ground
6 chs. N. of the cor.

August 10th

August 11th. At 6 a.m. We lay off
the Azimuth of Polaris $1^{\circ}35'46''$ to the N.
and mark the True Meridian
thus determined by a cross on a
rock firmly set in the ground
N. of the point established last night.

The magnetic bearing of the true
meridian is N. $16^{\circ}0'7''$, which
reduced by the table on page 100 of
the Manual gives the mean mag.
decl. $15^{\circ}56'8''$.

Preliminary to commencing
the N. body, or subdivision of this
township.

We run N. on a blank line,
along the Ebdy. of sec. 36, at 504
chs. We find the $\frac{1}{4}$ sec. cor., and at
44.24 chs. We find the cor. of
T. 23 S. R. 1 E.

No corner on line N. 4000 chs.
after diligent search no old sec.
cor. can be found 8000 chs. after dil-
ligent search no old sec. cor. can
be found 12000 chs. after diligent

Retracement of Rd by T. J. S. R. I. P. - Continued

Search no old sec. cor. can be found and at 156.61 chs. we find the cor. of secs. 19nd & 30 $\frac{1}{4}$ 26.7 chs. dist. marked and witnessed as described by the Surveyor General.

The course of this line is therefore N. 035 9' 10"

X Hence we run N. on a blank line along the N. bdy. of sec. 19. 40.00 chs. after diligent search no old $\frac{1}{4}$ sec. cor. can be found. 80.00 chs. after diligent search no old sec. cor. can be found. and at 118.75 chs. we find the $\frac{1}{4}$ sec. cor. of sec. 18. N. 1.23 chs. dist. which is a sand stone 8 x 6 x 6 ins. above ground set firmly and marked $\frac{1}{4}$ on N. face.

The course of this line is therefore N. 036 7' 10"

Hence we run N. on a blank line along the N. bdy. of sec. 18. and at 37.87 chs. we find the cor. of secs. 7th & 18. N. 74 lbs. dist. which is a sand stone 8 x 10 x 5 ins. above ground, marked and witnessed as described by the Surveyor General.

The course of this line is therefore N. 1° 0' 7" W.

Hence we run N. on a blank line along the N. bdy. of sec. 7. 40.00 chs. after diligent search no old $\frac{1}{4}$ sec. cor. can be found. and at 80.78 chs. we find the cor. of secs. 6th & 7. N. 156 chs. dist. which is a granite stone 8 x 10 x 8 ins. above ground firmly set and marked and witnessed as described by the Surveyor General.

The course of this line is therefore N. 1° 0' 7" W.

Hence we run N. on a blank line along the N. bdy. of sec. 6. 39.18 chs. we find the $\frac{1}{4}$ sec. cor. of sec. 6. N. 37 lbs. dist. which is a sand stone 8 x 8 x 6 ins. above ground firmly set and marked $\frac{1}{4}$ on N. face.

The course of this line is therefore N. 032 4'

Resurvey of C. bdy. of D. 23 S., R. 17 W. - continued.

Then we run N. on a blank line along the N. bdy. of sec. 6. 4000 chs. After diligent search no old T.P. cot. can be found and at 7836 chs we find the $\frac{1}{4}$ sec. cot. of sec. 31. N. 36 E. dist. which is a sand stone $10 \times 10 \times 6$ ins. above ground firmly set, and marked $\frac{1}{4}$ on N. face.

The course of this line is therefore N. 0°16' W. As the Township E has been subdivided, we calculate our return course and by allowing proportionate measurements proceed as follows.

At 9h. 58 m. p.m. L.M.T. we observe Polaris, its Eastern elongation, in accordance with Manual of Instructions, and mark the point in the line thus determined by a tack driven in a wooden plug set firmly in the ground 5 chs. N. of our station Aug. 12th '97

August 13th '97 At 6 a.m. L.M.T. we lay off the azimuth of polaris 1°35' to the W. and mark the true meridian thus determined by a cross on a rock firmly set in the ground N. of the mark established last night.

The magnetic bearing of the true meridian is N. 16°00' W. which reduced by the table page 100 of the manual gives the mean mag. decl. 15°56' E.

From the $\frac{1}{4}$ sec. cot. above described, we run S. 0°16' E. By two set of chainmen we re-establish the T.P. cot. as follows: Set a trachyte stone $15 \times 10 \times 7$ ins. 10 ins. in the ground, for cot. of D. 22nd 23 S. R. 16th 17 W. marked 22 S on N.E. 1 E on S.E. 23 S on S.W. 1 W. on N.W. faces, with 6 notches on N.E. and W. edges, raised a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high S. of cot.

Pits impracticable

August 14th 1897. At the witness cot. of D. 22nd 23 S., R. 1st 2 W. lat. 38°51' N. long. 112°06' W.
For description of witness cot. see N. bdy. of this T.P.

39.18

coming

Retirement of N. bdy. of T. 23 S., R. 17 E.

At this col. 9 h. 50 m. p.m. l.m.t. We observe Polaris at Eastern elongation in accordance with manual of instructions and mark the point in the line thus determined by a tack driven in a wooden plug set in the ground 5 oochs. N. of our station.

August 15th 1897. At 6 h. 30 m. a.m. l.m.t. We lay off the azimuth of polaris $1^{\circ}35'$ to the west and mark the True Meridian thus determined by a tack driven in a wooden plug set in the ground N. of the point established last night. At 7 h. a.m. l.m.t., we set off $38^{\circ}51' N.$ on lat. arc; $13^{\circ}53'30'' N.$ on decl. arc, and determine a true meridian with the solad which falls on the mark established by the polaris observation, the magnetic bearing of the true meridian is N. $16^{\circ} W.$ which reduced by the table page 100 of the manual gives the mean mag. decl. $15^{\circ}56' E.$

Hence we run W. 2.75 chs. to point for col. of T. 23 S. R. 1nd 2nd 7th. After diligent search no old T.p. col. can be found. Therefore we reestablish T.p. col. at this place as follows; Set a trachyte stone $16 \times 10 \times 5$ ins 11 ins. in the ground for col. of T. 23 S. R. 1nd 2nd 7th. Marked 22 S on N.E., 1 W. on S.E. 23 S. on S.W. 2 W. on N.W. faces, with 6 notches on N.E. S.E. N.W. edges, raised a mound of stone 2 ft. base, $\frac{1}{4}$ ft. high S. of col. Its impracticable. Hence we run E. on a blank line bet sects. 6th 31 - 38 2 9 chs. at a point 10 chs. N. after diligent search no old T.p. col. can be found, we continue our line E. at 7900 chs. we find the col. of sects. 5, 6, 31 & 32. which is a trachyte stone $16 \times 8 \times 7$ ins. laying loose on the ground, and marked as described by the Surveyor General, the bearing trees have been obliterated. We rebuild col. by setting stone 11 ins. in the ground and raised a mound of stone 2 ft. base, 2 ft. high N. of col. Its impracticable.

Hence we run E. on a blank line bet sects. 5th 32. 4000 chs. after diligent search no old T.p. col. can be found and at 80 72 chs. we find dead stump of bearing tree N. $40^{\circ} E.$ 15 lbs. disk. We rebuild the col. as follows;

Retirement of Subdivision of 973 S., R. 1, Tp.

Set a cedar post 4x4 ins 3 ft long.
2 ft. in the ground, marked T 2 3 5.
S. 5 on S. W. R. 1 W. S. 4 on S. E. with
2 notches on $\frac{1}{4}$ inch on the E. edge; dig
pits 2x4x2 ins, in each sec. 6 ft. deep and raised
a mound of earth left base 2 ft. high. S. of Col.
At this Col. we set off 13° 49' N. decl.
Alt.; and at 12^h 45^m m. t.; observe the
Sun over the meridian the resulting
Lat. is $38^{\circ} 51' N$.

S. on a blank line bet. secs. 4 ^{Aug 5},
40.00 after diligent search no old
1/4 sec. col. can be found. and at
81.00 chs. we find the col. of secs.
4, 5, 8 ^{Aug 9} of which is a sand stone 17x6x6
ins. dimly marked and laying
loose in a mound of stone. Witness
trees are obliterated. We re-
build the col. at this place as
follows.

Set a cedar post 4x4 ins. 4 ft. long
2 ft. in the ground, marked 9.
2 3 S. S. 4 on N. E. R. 1 W. S. 9 on S. E.
S. 8 on S. W. S. 5 on N. W. faces with
4 notches on the E. and 5 notches
on the S. edges. dig pits 18x18
x 12 ins. in each sec. 5 $\frac{1}{2}$ ft. deep
and raised mound of earth left base
2 ft. high N. of Col.

Hence we run S. on a blank line
bet. secs. 8 ^{Aug 9} 40.00 chs. after dil-
ligent searchs. No old 1/4 sec. col.
can be found. and at 81.20 chs.
we find the col. of secs. 8, 9, 16 ^{Aug 17}
17, 18 chs. dust which is a sand
stone 17x12x5 ins. laying loose on
the ground, and marked as de-
scribed by the Surveyor General.
Witness trees have been obliterated.

Retracement of Subdivision of T. 2 S. R. 1 M. C.

1/8 rebound cor. as follows:

Set a trachyte stone 15 x 8 x 6 ins. 10 ins.
in the ground for cor. of secs. 8, 9, 16 $\frac{3}{4}$ & 17.
marked well, & notched on the E and
S. edges. raised a mound of stone 2 ft.
base 16 ft. high N. of cor. Its not
practicable. Because this line is therefore S. 13° 10' E.

August, 16th. At 7 a.m. I mt. 1/8 set off 38° 49' W.
on lat. acc. 13° 3.5' N. decl. acc. and de-
termine a true meridian with the solar,
at the cor. of sec. 8, 9, 16 $\frac{3}{4}$ & 17.

Hence I run E. on a blank line bet.
secs. 9 & 16. 40.00 chs. after diligent
search no old 1/4 sec. cor. can be found. and at
8060 chs. I find the cor. of secs. 9, 10
15 & 16. N. 2.54 chs. dist. which is a
trachyte stone 6 x 10 x 7 ins. above ground
firmly set. and marked and witness-
ed. as described by the Surveyor General.
The course of this line is therefore N. 88° 20' E.

Hence I run S. on a blank line bet. sec. 15
& 16. 40.00 chs. after diligent search no old
1/4 sec. cor. can be found. and at 81.04 chs.
I find the cor. of secs. 15, 16, 21 & 22. 6.5 lbs.
dist. which is a trachyte stone 6 x 10 x 6 ins.
above ground. firmly set. and marked and
witnessed. as described by the Surveyor
General. The course of this line is therefore S. 0° 2' E.

Hence we run S. on a blank line bet. secs.
21 & 22. 40.00 chs. after diligent search
no old 1/4 sec. cor. can be found. and at 81.60
chs. I find the cor. of sec. 21, 22, 27 & 28
E. 110 chs. dist. which is a trachyte stone
6 x 8 x 5 ins. above ground. firmly set.
and marked as described by Surveyor
General. witness less are obliterated.

The course of this line is therefore S. 059' E.

Hence I run N. on a blank line bet.
secs. 27 & 28. 40.00 chs. after diligent
search no old 1/4 sec. cor. can be found.

Retracement of Subdivision of R. 23 S., R. 1 W. Continued.

and at 18.00 chs. we find the cor. of secs. 20, 21, 28, ^{and} 29. S. 14° 0' chs. dist. which is a
lachrytic stone 8x10x10 ins. above
ground, firmly set, and marked
as described by the Surveyor General.
Witness trees are obliterated.

The course of this line is therefore S 88° 38' E.
Hence we run S. on a blank line
bet. secs. 28 ^{and} 29. 40.00 chs. after diligent
search no all $\frac{1}{4}$ sec. cor. can be found,
and at 8^h 60 chs. we find the cor. of
secs. 28, 29, 32 ^{and} 33. E. 1.80 chs. dist. which
is a lachrytic stone 8x15x17 ins. above
ground, firmly set, and marked, and
witnessed as described by the
Surveyor General.

The course of this line is therefore S. 1° 15' E.
Hence we run S. on a blank line. bet.
secs. 32 ^{and} 33. 40.30 chs. we find the 1st
sec. cor. which is a lachrytic stone
15x6x6 ins. laying loose on the
ground.

And at 80.50 chs. we find the cor. of
secs. 33 and 34 on the S. bdy. of. Rd.
E. 1.76 chs. dist.

The course of this line is therefore S. 1° 15' E.

Wherefore, by the calculated course
and by allowing proportionate
measurements we preserve the line as
follows.

August 17th At the cor. of secs. 32 ^{and} 33 R. 23 S.,
R. 1 W. Lat. 38° 16' N. long. 115° 58' W. at 5 p.m. L.M.T.
We set off 38° 46' N. Lat. and 13° 07' 30" W. on did
line, and determine a true meridian with

Resurvey of the subdivision of 173. S., R. 17th

chains, the solar, and mark the point thereof or a stone set firmly in the ground 5' N. of our station.

A. 94.38m. p.m. l.m.t. We observe Polaris at E. elongation; in accordance with Manual of instructions, and mark a point on the line thus determined on a plug driver, in the ground 50' N. of our station. August 17th 1899

August 18th At 6h 30m. a.m. l.m.t., we lay off the azimuth of Polaris, $1^{\circ}35\frac{1}{2}'$ to the N. and mark the True Meridian thus determined by cutting a groove in a stone set last night. 5' N. of corner, in which the true meridian falls. 0.10 ins. N. of the mark determined by the pole.

At 1st a.m. l.m.t., we set off $38'41\frac{1}{2}$ ins. $17'56\frac{1}{2}'$ N. on decl. line; and determine a true meridian with the solar, the line thus determined falls on the mark of the True Meridian established by the Polaris observation. The solar apparatus by p.m. & a.m. observations, defines points for the true meridian, respectively about $0'05''$ S. and on the true meridian established by polaris observation; therefore we conclude the adjustment of the instrument, are satisfactory.

The magnetic bearing of the true meridian at 9 a.m., is N. $1^{\circ}54'07\frac{1}{2}'$ E.; the angle thus determined, reduced by the table, page 100, gives the mean mag. diff., $15'34\frac{1}{2}'$.

Hence the runs

N. $1^{\circ}5'40$ on the true line bet. sec. 34 & 35. Gneiss, talus Mountainous land through scattering cedar and sage brush island.

Bottom of ravine, 100 ft. deep, houses N. 200' N. slope of ridge.

Resurvey of the Subdivision of T. 23 S., R. 17 W. (Continued.)

chains.		
40.73	Set a trachytic stone $1\frac{5}{8} \times 8 \times 6$ ins. 10 ins. in the ground for $\frac{1}{4}$ sec. cot. marked $\frac{1}{4}$ on N. face, raised a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cot. Pits impracticable.	
43.00	Bottom of ravine, 50 ft. deep. Course N. 71° E.	
80.52	The cot. of sec. 28, 29, 32 $\frac{3}{4}$ 33. Land, mountainous Soil, stony 3rd deg 4th rate. Timber, scattering cedar. Mountainous land and dunes under-growth.	80.52 chs.
0.50	N. 101.5° N. on a tree line bet. secs. 28	
28.00	and 29. over rolling mountainous land. through scattering cedar, sage & oakbrush. Ascend.	
41.31	Top of ridge, bears N. 25° ^{and} S.E. Bottom of ravine, 70 ft. deep. Course N. 25° N. and old wood road. Small spring East. 5.0 chs.	
82.62	Top of spout, projects N. Set a trachytic $1\frac{5}{8} \times 9 \times 5$ ins. 10 ins. in the ground for $\frac{1}{4}$ sec. cot. marked $\frac{1}{4}$ on N. face, raised a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cot. Pits impracticable.	
	82.62 chs.	
3.70	98858° E. on a tree line bet. secs. 21 ^{2nd} 28. over rolling mountainous land. through scattering cedar, oak and sage brush. Old wood road. bears N. 30° ^{and} S. 30° E.	

Survey of the subdivision of T. 23 S., R. 1 W. Cont'd.

	Cottonwood ravine 150 ft. deep course 7.3078 Ascend.
39.00	Set a brachyte stone $14 \times 10 \times 6$ ins. 10 ins. in the ground for $\frac{1}{4}$ sec. cot. Marked 14 ins. N. face raised a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cot. Pits impracticable. The cot. of secs. 21, 22, 27 Aug 28.
- 78.01	Land, mountainous. Soil, clay, stony, 3rd rate. Timber, scattering cedar, dense oak, sage brush. Mountainous land. 78.01 chs. August 18 th 1897.

August 19th at 7 a.m., l.m.t., $\frac{1}{4}$ E set
off $38^{\circ} 48' N$ on lat. acc; $12^{\circ} 36' N$ decl.
acc; and determine a true meridian
with the solar; at the cot. of secs.
21, 22, 27 Aug 28.

Hence the new $N.059' N$ on a true
line, decl. secs. 21 Aug 22.

Over rolling land, through scattering
cedar, sage & oak brush.

Along the N. slope of mountain.

40.80 Set a brachyte stone $17 \times 10 \times 6$ ins.
9 ins. in the ground for $\frac{1}{4}$ sec. cot.
Marked 14 ins. N. face raised a
mound of stone 2 ft. base, $1\frac{1}{2}$ ft.
high N. of cot. Pits impracticable.

Bottom of ravine 175 ft. deep course
8.76 Ascend.

Top of ridge, slopes S. W. descend.
Top foot of slope. The cot. of secs.
13, 16, 21 Aug 22. If E raise a mound
of rock 2 ft. base, $1\frac{1}{2}$ ft. high N. of
cot.

Land, mountainous.

Soil, stony clay. 3rd rate.

Timber, scattering cedar.

Mountainous land. $\frac{1}{4}$ dense undergrowth.

81.61 chs.

Resurvey of the subdivision of T. 23 S., R. 1 W., continued.

N. 0°02' 20' on a tree line bet. secs. 15
and 16. over nearly level land and
scattering cedar.

40.52 Set a sand stone $15 \times 10 \times 4$ ins. 10 in.
in the ground, for ^{measured} $\frac{1}{4}$ sec. cor. mark d
1/16 on N. face, raised a mound of
stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of
cor. pits impracticable.

61.40 Leave level land. begin ascent
over rolling land.

66.50 Top of rocky ridge, 200 ft. above $\frac{1}{4}$
sec. cor. bears E. $\frac{1}{2}$ N. descend.

81.04 The cor. of secs. 9, 10, 15 ^{and} 16.

~~19.64~~
~~61.40~~ Raise a mound of stone 2 ft.
base $1\frac{1}{2}$ ft. high N. of cor.
Land, mountainous ^{and} level.

Soil, clay, stony 3rd rate.
Timber, scattering cedar.

Mountainous land. 19.64 chs.

Level land. 61.40 chs.

S. 88°20' N. on a tree line bet. secs.

9 ^{and} 16. over rolling mountainous
land, through scattering cedar.
descend.

8.00 Bottom of ravine 150 ft. deep, coarse
S. 27° ascends over broken white
clay and gypsum hills.

40.32 Set a black, t. stone $10 \times 10 \times 6$ ins.
7 ins in the ground. for ^{measured} $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on N. face, raised a mound
of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of
cor. pits impracticable.

56.20 Begin descending

- 80.63 The cor. of secs. 8, 9, 16 ^{and} 17.
Land, mountainous.

Soil, clay, ^{big} gypsum 4th rate.
Timber, scattering cedar.

Mountainous land. 80.63 chs.

Sky being over cast could take
no observation for Lat.

Resurvey of subdivision of 9, 2, 3, S, R, 17th Cont'd

August 20: at 7 a.m. we set off 38419.00
on flat arc: 12° 14' N. on decl. arc; and
determine a true meridian with the
solar. at the cor. of secs. 8, 9, 16 & 17.

Hence we run N. 1° 20' E. on a true
line bet. secs. 8 & 9.

over broken gypsum hills.
descend.

40.61 Set a gypsum stone. 15 x 10 x 10 ins.
10 ins. in the ground ^{recastable} for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on N. face raised a
mound of stone 2 ft. base, 2 ft. high
N. of cor. Pits impracticable.

50.00 Bottom of ravine. 40 ft. deep.
course S. $\frac{1}{2}$ W. ascend.

65.50 Descend.

- 81.22 The cor. of secs. 4, 5, 8 & 9.

Land, mountainous.

Soil, clay and gypsum. + rate.

Mountainous land. 81.22 chs.

N. on a true line bet. secs. 4 & 5.
over broken gypsum hills. descend

6.00 Bottom of slope.

6.50 Wagon road. from Lost creek
to signed. leave E. 40%.

7.00 Past 10 x 6 ft. course N.

9.00 Begin ascending broken hills.

11.00 Set a trachyte stone 14 x 10 x 6 ins.
10 ins. in the ground ^{recastable} for $\frac{1}{4}$ sec.

cor. marked $\frac{1}{4}$ on N. face raised
a mound of stone 2 ft. base, 2 ft.

high N. of cor. Pits impracticable.

Bottom of ravine 100 ft. deep.

course S. $\frac{1}{2}$ W. ascend.

- 81.00 The cor. of secs. 4 & 5.

Land, mountainous.

Soil, clay and gypsum. + rate.
No timber.

Mountainous land.

81.00 chs.

Resurvey of E. boundary of T. 23 S., R. 17 E.

10.56	August 23 rd 1891. At 7:45 a.m. L.M.T., 2 nd set off 38° 51' N. on lat. arc; 11° 16' N. on decl. arc; and determine a true meridian with the solar, at the Closing Col. for T. 23 rd S., R. 17 ^E . established by us August 22 nd .
	The random line bet. R. 1 E. & 17 ^E . developed east in alignment and that many old corrs. are obliterated, therefore as the P. E. has been subdivided, in accordance with the manual page 73. We establish corrs. on the range line as follows: We calculate our return course and, allowing proportionate measurements.
	We run S. 0° 16' E. on a line line on the N. side of Sec. 6, descending along the N. slope of Mountain, over rolling land through scattering cedar & pine, measurement by two set of chainmen.
	Intersect old 1/4 sec. col. We change col with reference to R. 1 W.
	Hence We run S. 53° E.
116.99	Measurement by two set of chainmen set at black slate stone 14 x 8 x 6 ins. 9 ins. in the ground, for 1/4 sec. col. to Sec. 1, R. 17 ^E . Marked 1/4 on N. face, raised a mound of stone 2 1/2 ft. base, 2 ft. high N. of col. Bits impracticable.
149.74	Measurement by two set of chainmen Intersect old 1/4 sec. col. for sets. 1, 6, 7 & 12. We obliterate marks pertaining to R. 17 ^E .
62.30	Hence We run S. 100° E. along the N. side of Sec. 7.
	Brush fence bears E. 33° N. North line of A. H. Buchanan's claim. Leave cedar and pines enter cultivated land on Fish Creek Bottom.
72.00	Brush fence bears N. 35° W. 33° S. 35° E. West line of A. H. Buchanan's claim. House log lays S. E. about 2 chains.
73.00	Wagon road to Salina from head of Fish Creek.

Resurvey of Boundary of G. 73 S. R. 17 W. - continued

chains	creek, bears N. 35° E. and 1.35° E.
44.00	Bushy spruce fence, bears N. 35° E. and 1.35° E. East line of Richard Stark claim, from which his doghouse bears N. 7°, about 70 chs.
75.00	Leave Cuttigabia bank, enter dense willow.
77.90	Loaf creek 15 lbs. wide, pure water flows N. 10° E., then bends N. 35° E. flows N. 7°.
81.00	Same creek, flows N. E.
84.00	same creek, flows N. E.
	Measurement by two sets of chainmen,
86.49	Set a blackstone 14x8x6 ins. 9 ins. in the ground for 1/4 sec. lot to sec. 1 R. 17 W. marked C.C. on N. face with 1 groove on N. and 5 grooves on the S. face, raised a mound of stone 3 ft. base 2 ft. high. E. off lot. Bits intractable. Land mountainous and low.
	Soil, white clay and rocky, lean 2nd fill, slate, granite, cedar and pine.
	Mountainous land & dense undergrowth, 74.30 acres, Level land. 13.60000.

48.00	Opposite Hermon S. 107° E. Aligned E. bds. of sec. 12, over nearly level bank, through dense undergrowth, measurement by two set of chainmen.
5.90	Set a blackstone 15x8x5 ins. 13 ins. in the ground for established 1/4 sec. lot to sec. 7 R. 17 W. marked 1/4 on N. face, raised a mound of stone 3 ft. base, 2 ft. high. E. off lot. Bits intractable.
3.03	Loaf creek, 15 lbs. wide, pure water flows N. E.
9.00	same creek flows N. E.
15.50	same creek flows N. E.
27.50	same creek flows N. E. Leave brook.
	J. M. Cook's house is E. about 8 chs. and a portion of his claim says on the right side of the creek in the bottom.
	There is no well defined line marking the claims of Stark & Cook on this line.
	Measurement by two set of chainmen
140.00	Set a blackstone 17x9x6 ins. 12 ins. in the ground for 1/4 sec. lot to sec. 12 R. 17 W. marked 1/4 on N. face, raised a mound of stone 2 ft. base, 2 ft.

Resurvey of Embdy. of T. 23 S., R. 1 W. continued.

- ans. high, N. of cot. Pits impracticable.
 Measurement by two set of chainmen
 43.05 Intersect old sec. cot. to secs. 7, 12, 13 $\frac{3}{4}$ 18.
 If obliterate marks pertaining to R. 1 N. and
 raised a mound of stone 3 ft. base, 2 ft. high E.
 of cot. Pits impracticable.
 Thence 2 p.m. run S. $1^{\circ} 0' 6''$ E.
 46.80 Enter scattering cedar and pine beam bottom.
 begin ascending over broken hills, along
 the E. slope of mountain
 54.00 Willow Creek 1/2k. wide pure water flows E. $\frac{3}{4}$ 13
 Bottom of ravine 70 ft. deep.
 Measurement by two set of chainmen.
 Set a trachyte stone 16x8x5 ins. 11 ins. in
 the ground for closing Cot. to secs. 12 $\frac{3}{4}$ 13
 R. 1 N. marked C.C. on N. with 2 grooves on
 N. and 4 grooves on S. faces. raised a mound
 of stone 3 ft. base, 2 ft. high N. of cot.
 Pits impracticable.
~~54.00~~
~~54.00~~
 Land level ^{my} mountainous
 Soil, loam and clay $1\frac{1}{2}$ ^{and} $2\frac{1}{2}$ rd rate
 Timber, cedar ^{and} pine, dense undergrowth
 Level land 24.30 cts. Mountainous land
 and dense undergrowth 55.70 cts.
 At this cot. 2 p.m. set off 11' 1" m. on decl. ad.
 and at 12 h 2 m. from C. m.t., 2 p.m. observe
 the sun on the meridian, the result-
 ing lat. is $38^{\circ} 49' N.$
 Thence 2 p.m. run S. $1^{\circ} 0' 6''$ E. along the N. bdy.
 of sec. 13. Measurement by two
 set of chainmen
 0.93 Intersect old 1/4 sec. cot. If change mark
 with reference to R. 1 N. Thence 2 p.m. run
 S. $0^{\circ} 36' E$ descending along the E. slope of
 mountain, through scattering cedar ^{and} pine
 creek 1/2k. wide pure water flows E. and botto.
 of ravine 75 ft. deep. course E.
 begin ascending.
 16.00 Sand stone cliffs 120 ft. high bear E. $\frac{3}{4}$ 13
 Measurement by two set of chainmen.

Resurvey of Eddy. of. 9. 23d, R. 17th. Continued.

hours	
" 0.00	Set a sand stone 11x6x6 ins. 11 ins. in the ground for 1st sec. cor. to sec. 16. R. 17 th , marked 400 ft. face, raised a mound of stone 3 ft. base, 1 ft. high top of col. Pitt impracticable Measurement by two set of chainmen.
10.34	Set a sand stone 17x9x6 ins. 17 ins. in the ground for re-established cor. to secs. 18 th & 9, marked with 3 notches on N. & S. edges raised a mound of stone 3 ft. base, 2 ft. high top of col. Pitt impracticable. Bottom of ravine 15.0 ft. deep, drains E.
59.00	Sand stone cliffs 20 ft. high base E. ^{Aug} 17 th .
67.25	Top of shear projects E. descend. Measurement by two set of chainmen
77.00	Set a trachyte stone 18x10x6 ins. 12 ins. in the ground for re-established 1/4 sec. cor. to sec. 19. R. 16, marked 400 ft. face, raised a mound of stone 3 ft. base, 2 ft. high top of col. Pitt impracticable. Measurement by two set of chainmen
80.00	Set a trachyte stone 20x12x10 ins. 15 ins. in the ground for Closing cor. to sec. 13 th & 24. R. 17 th , marked C.C. on 1 ft. with 3 grooves on N. & S. faces, raised a mound of stone 1 ft. base, 2 ft. high top of col. Pitt impracticable Land, mountainous. Soil, stony sand ^{and} clay. ^{soil later.} Timber, cedar ^{and} pine. Mountainous land. 80.00 hrs.

August 23rd 1897.

August 24th 1897. at Thom. a. m. l. m. t., 7th a set
off 38° 48' N. on lat acc: 10° 56' N. on decl. acc:
and determine a true meridian with
the solar, at the cor. of secs. 13th & 24 R. 17th.
Hence 7th run
S. 0° 36' E. along the Eddy. off. sec. 24.

Descending along the E. slope of the
mountain over broken hills, through
cedar and pine timber.

Bottom of ravine 250 ft. deep, drains E.
Ascending.

Bottom of ravine 200 ft. deep drains N. 45° E.
ascending

Sandstone cliffs 15 ft. high base E. ^{Aug} 17th.

Resurvey of the E. bdy. of 9.23 S., R. 17 N. - Continued...

35.00	Top of spur, 250 ft. high, projects E. Measurement by two set of chain-men.
39.18	Intersect old cot. to secs. 19, 30, 24 and 25. Ife obliterate all marks pertaining to R. 17 N. and raised a mound of stone 3 ft. base, 2 ft. high, E. of cot. Hence Ife run S. 0°59'E. Measurement by two set of chain-men.
40.00	Set a trachyte stone 70x10x8 ins. 15 ins. in the ground for $\frac{1}{4}$ sec. cot. to sec. 24, R. 17 N. marked $\frac{1}{4}$ on N. face, raised a mound of stone 3 ft. base, 2 ft. high, N. of cot. Pits impracticable;
52.00	Bottom of ravine, 175 ft. deep, course, N.E. ascending.
67.00	Bottom of ravine, 200 ft. deep, course N.E. ascending. Difference between measurement of 78.33 chs., by two set of chain men, is 4 lps.; position of middle point By 1st set, 78.35 chs., by 2nd set 78.31 chs.; the mean of which is
78.33	Set a trachyte stone 18x10x7 ins. 12 ins. in the ^{reestablished} ground for $\frac{1}{4}$ sec. cot. to sec. 30, R. 1 E. marked $\frac{1}{4}$ on the E. face, raised a mound of stone 3 ft. base 2 ft. high, E. of cot. Pits impracticable.
79.35	Top of spur 300 ft. high, projects E. descend.
- 80.00	Measurement by two set of chainmen Set a trachyte stone 18x7x6 ins. 12 ins. in the ground for closing cor. of secs. 24 and 25, R. 1 N. Marked C.C. on W., with 4 grooves on the N. 2 grooves on the S. and raised a mound of stone 3 ft. base, 2 ft. high, N. of cot. Pits impracticable. Land, mountainous. Soil, stony 4 th rate. Timber, Cedar and pine. Mountainous land 80.00 chs.

Hence Ife run S. 0°59'E. along the E.
bdy. of sec. 25 R. 1 N. descending over
broken hills through dense Artemesia.
scattering cedar and pine.

Bottom of ravine, 80 ft. deep, N.E. ascending.

Reservoir after Ebb dy. of 9.23.5. R. 1 N. - continued

Chains.	
8.00	Enter thick cedar and pine timber.
16.00	Bottom of ravine, 70 ft. deep, drains S. 60° E.
31.10	Bottom of ravine, 75 ft. deep. drains S. 60° E. Measurement by two set of chainmen.
37.49	Set a trachyte stone 18x9x5 ins. 12 ins. in the ground, for cor. to secs. 30 and 31. R. 1 E. Marked 1/4 on N. face with 5 notches on the N., 1 notch on the S.
40.00	edge and, raised a mound of stone 3 ft. base, 7 ft. high E. of cor. Pits impracticable. Measurement by two set of chainmen, Set a trachyte stone 18x8x6 ins. 12 ins. in the ground, for 1/4 sec. cor. To sec. 25 R. 1 N. Marked 1/4 on N. face, raised a mound of stone 3 ft. base, 7 ft. high N. of cor. Pits impracticable.
57.75	Bottom of ravine, 150 ft. deep. Course S. E.
68.00	Bottom of ravine, 30 ft. deep. drains E.
71.15	Bottom of ravine, 60 ft. deep. drains E.
75.50	Top of ridge 100 ft. high, bears N. E. ^{approx.} S. 74° W. This point is about 400 feet above the East creek bottom. Begin descending along small ravine course S.
76.60	Difference bet. measurements of 76.60 chs., by two set of chainmen, is 2 chs.; position of middle point. By 1 st set, 76.6 b. chs. By 2 nd set, 76.64 chs.; the mean of which is.
80.00	Set a trachyte stone 18x9x6 ins. 12 ins. in the ground, for 1/4 sec. cor. To sec. 31 R. 1 E. Marked 1/4 on E. face, raised a mound of stone, 3 ft. base, 7 ft. high, E. of cor. Pits impracticable. Measurement by two set of chainmen
	Set a trachyte stone 18x10x6 ins. 12 ins. in the ground, for closing cor. of secs. 25 and 36. R. 1 N. Marked C.C. on N. with 5 grooves on the N. groove on the S. " faces" and raised a mound of

Resurvey of the Ebdg. of T. 23 S., R. 1 W. Continued.

chains.	stone, 3 ft. base, 2 ft. high. N. of cor. Ridge impracticable. Land, mountainous, soil, stony & thin rate. Timber, cedar and pine. dense under growth.
	mountainous land 8000 chs. August 24 th at this cor. I set off 10°50' N. on decl. arc; and at 12 m 2 m p.m., l.m.t., observe the sun on the meridian; the resulting lat. is 38°49' N which is the proper lat.

	Hence begun S. 0°59' E. along the E. bdy. of sec. 36 R. 1 W. descending, through thick cedar and pine timber, along small ravine.
6.50	Leave ravine over cliff, 40 ft. high bears E. $\frac{2}{3}$ N. W.
7.70	Bottom of ravine, 60 ft. deep drains S.E.
13.20	Sand stone cliff, 35 ft high bears S. 25° E. $\frac{2}{3}$ N. W. 25° W.
17.25	Ford road, bears N. E. $\frac{2}{3}$ S. W.
19.00	Enter Little Lost Creek canon 800 ft. deep. course N. E.
20.50	Enter willows & rose brush.
23.00	Little Lost Creek, 12 ft wide, pure water, flows N. E.
28.00	Leave willows and rose bushes, begin ascending along N. slope of mountain, through oak, cedar and pine.
31.40	Sand stone cliffs 40 ft. high, bears N. W. $\frac{2}{3}$ E.
	Sand stone cliffs 70 ft. high bears N. W. $\frac{2}{3}$ S. E.
	Measurement by 2 set of chains

Survey, at the End of 9.23 S. R. 1 W. complete.

Chains.

- 3581 Intersect the cor. of 9.23 and 24 S. R. 1 E. and 1 W. We obliterate all marks pertaining to R. 1 W.
and raised a mound of stone 3 ft. base, 2 ft. high. E. of cor. It's impracticable.
Hence we run S.
Measurement by two set of chainmen.
- 40.00 Set a trachyte stone $17 \times 10 \times 6$ ins. 12 ins in the ground, for $\frac{1}{4}$ sec. cor. to sec. 36 R. 1 W. marked $\frac{1}{4}$ on N. face, raised a mound of stone 3 ft. base, 2 ft. high, N. of cor. It's impracticable.
- 46.00 Top of spur, 800 ft. above Lost creek bottom. projects N.
Begin descending.
- 68.00 Trachyte ledges.
- 70.00 Leaves cedar and pine, entered dense undergrowth, oak brush.
Difference bet. measurement of 75.00 chs., by two set of chainmen, is 5 lbs.;
position of middle point. By 1st set, 75.03 $\frac{1}{2}$ chs. By 2nd set, 74.98 $\frac{1}{2}$ chs; the mean of which is
75.01 Intersect $\frac{1}{4}$ sec. cor., which we change with reference to R. 1 W. raised a mound of stone 3 ft. base, 2 ft. high. E. of cor. It's impracticable.
- 78.00 Little lost creek, 10 lbs wide, pure water, flows N. 30° W.
Measurement by two set of chainmen.
- 80.05 Intersect the C. C. to 9.23 and 24 S. R. 1 W. Set by us.
Land, Mountainous
Soil, stony &ⁱⁿ rate.
Timber, cedar and pine, dense undergrowth.
Mountainous land
- 80.05 chs.

Subdivision of G. 23. S., R. 17. P.

August 24th 1897 At the cor. of Secs. 1, 2, 35 and 36; Latitude $38^{\circ}46' N.$ lon. $111^{\circ}54' E.$; He set off $38^{\circ}46' N.$ on the lat. arc; $10^{\circ}35' N.$ on decl. arc; and, at 5 h 2 m p.m., b. m.t., determine with the solar a true meridian and mark a point thereof, on a stone firmly set in the ground. 5 chs. S. of the cor. He set this point S. on account deep ravine. From the S. point

At 9 h 15 m. l. m. t., observe Polaris at E. elongation, in accordance with the manual of instructions, and mark a point in the line thus determined; on a plug driven in the ground, 5 chs. N. of our station.

August 25th At 6. a.m., l. m. t., lay off the azimuth of Polaris, $1^{\circ}25'$ to the N., and mark the True Meridian, then determine by cutting a small groove in the stone at the cor. on which the true meridian falls again. If w. the mark determined by the solar.

At 9 h. m. a. m., l. m. t., set off $38^{\circ}46' N.$ lat. arc; $10^{\circ}35' N.$ decl. arc; The meridian thus determined falls on the point determined by the Polaris observation. Therefore, if we exclude the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 9 h 30 m. a. m., is $N. 15^{\circ}40' N.$ the angle thus determined, reduced by the table, page 100, gives the mean mag. decl. $15^{\circ}34' E.$

From the cor. already described run N. on sectional guide

Subdivision of T. 23 S. R. 1 N. continued

Chains.	Median bet secs. 35 and 36
	Descending over rough stony ground through dense undergrowth and scattered cedar.
6.50	Bottom of ravine, 300 ft. deep, course S. E. ascending over rolling hills.
40.00	Set a lime stone 18 x 8 x 6 ins. 10 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face. Raise a mound of stone 2 ft. base, 2 ft. high. $\frac{1}{4}$ of cor. Its impracticable. Enter heavy cedar and pine.
75.00	Enter scattering cedar.
80.00	Set a lime stone 24 x 8 x 8 ins. 18 ins. in the ground, for cor. of secs. 25, 26, 35 and 36. marked 1 mile on the S. and E. edges.
	Raised a mound of stone 3 ft. base, 2 ft. high. $\frac{1}{4}$ of the cor. Its impracticable.
	Land, Mountainous.
	Soil, rocky loam. 3 rd and 4 th rate.
	Timber, cedar and pine.
	Undergrowth, Artemesia.
	Mountainous land 80.00 obs.
	East on a random line bet. secs. 25 and 36.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.39	Intersect S. bdy. 1 lps. N. of C.C. of secs. 25 and 36. Thence N. 45° E. 1 lps. West on true line bet. secs. 25 and 36.
	Ascending E. slope of mountain over rolling hills, through pine and cedar.
10.30	Bottom of ravine 50 ft. deep. course S. E.
30.39	Set a lime stone 24 x 12 x 6 ins. 18 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face. Raise a mound of stone 3 ft. base, 2 ft. high N. of cor.
	Its impracticable.
645.0	Top of ridge. Mountain bears N. 45° S. declination.
79.39	The cor. of secs. 25, 26, 35 and 36.

Subdivision of T. 23 S., R. 12 E. - continued.

Chains:	Land, mountainous.
	Soil, rocky loam and clay 3 $\frac{3}{4}$ & 4 $\frac{1}{2}$ ft. late.
	Timber, cedar and pine.
	dense undergrowth, oak brush and artemesia. 79.39 chs
	Sky being over cast could take no observation for Lat.

	North. bet. secs. 25 and 26.
	ascending over rolling hills, through cedar, pine, and dense undergrowth.
39.00	Bottom of ravine 70 deep course S.W.
40.00	Set a lime stone 24 x 10 x 8 ins. 18 ins. in the ground. for 1/4 sec. cor. marked 1/4 over N. face. raised a mound of stone 3 ft. base, 2 ft high N. of cor. Pits impracticable.
80.00	Set a trachyte stone 15 x 9 x 6 ins. 10 ins in the ground. for cor. of secs. 23, 24, 25 $\frac{3}{4}$ & 26. marked with 1 notch on the E. and 2 notches on the S. raised a mound of stone 2 ft. base 1 1/2 ft. high N. of cor.
	Pits impracticable.
	Land, mountainous
	Soil, stony 3 $\frac{3}{4}$ ft. late.
	Timber; cedar and pine.
	Mountainous land and dense undergrowth. 80.00 chs.

	E ast. on a random line bet. secs. 24 $\frac{3}{4}$ & 25
40.00	Set temp 1/4 sec. cor.
78.08	Div. in such Eddy at the C.C. to secs. 24 $\frac{3}{4}$ & 25. Hence - 1/4 sec. cor.
	W. on a true line bet. secs. 24 $\frac{3}{4}$ & 25
	Over rolling land, through scattering cedar and pine. Ascend E. slope of mountain along S. slope of hill.

Subdivision of T. 23 S., R. 17 W.-Continued.

7 a.m. 38.08	Set a trachyte stone $14 \times 10 \times 6$ ins. 10 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, raised a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
55.10	Enter sage brush, on top of mountain, descend.
62.00	Leave timber, ^{more} dense sage and oak brush.
- 78.08	The cor. of secs. 23, 24, 25 ^{Aug 26} . Land, mountainous. Soil clay and stony ^{3rd & 4th rate} . Timber, Cedar and pine. Mountainous land and dense under-growth. 78.08 chs.
	August 25 th 1897.

August 26th At 7 a.m., l.m.t., I set off. $38^{\circ} 48' \text{ W.}$ on lat. acc.; $10^{\circ} 14' \text{ N.}$ on decl. acc.; and determine a true meridian with the solar. at the cor. of secs. 23, 24, 25 ^{Aug 26}.

Hence we run N.

bet. secs. 23 ^{and} 24 over rolling land through dense sage brush. Ascend.

17.00	Enter scattering cedar and timber.
40.00	Near top of mountain. bears N. ^{and} S. Set a trachyte stone $16 \times 10 \times 7$ ins. 11 in. in the ground for $\frac{1}{4}$ sec. cor. mark $\frac{1}{4}$ on N. face, raised a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable. descend.
- 80.00	Set a trachyte stone $18 \times 8 \times 6$ ins. 12 ins. in the ground for cor. of secs. 13, 14, 23 ^{and} 24. Marked with 3 notches on the S and 1 notch on the E. edges. Raised a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high. N. of cor. Pits impracticable. From which a cedar 4 ins. in diam. bears

Subdivision of T. 23 S., R. 1 W. - Continued.

S. 10° E. 10 lbs. dist. marked T. 23 S.; R. 1 W.

S. 24. B.T.

A cedar 6 in. in diam. bears N. 15° E. 16
lbs. dist. marked T. 23 S., R. 1 W. S. 13. B.T.
No other trees within proper dist.

Land, mountainous.

Soil, stony. 3rd rate.

Timber; cedar and pine.

Mountainous land and dense under-
growth 50.00 chs.

E. on a random line bet. secs. 13 & 24.

4000 Set temp. $\frac{1}{4}$ sec. cor.

76.95 Intersect E. bdy. at the closing
cor. of secs. 13 & 24

The distance 3/4 mi. per run.

West on a tree line bet. secs.
13 & 24. over rolling land. Through
scattering cedar and pine and sagebrush.
ascend the E. slope of mountain
along S. slope of ridge.

36.95 Set a brachytile stone 15 x 8 x 6 ins. 10
ins. in the ground. for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ sec. N. face. raised a
mound of stone 2 ft. base, $\frac{1}{2}$ ft. high.
N. of cor. Pits impracticable.

63.00 Top of mountain ridge. slopes N.
900 feet. above Lost Creek. descend
The cor. of secs. 13, 14, 23 & 24.

Sand; mountainous.

Soil, clay and stony 3rd rate.

Timber; cedar and pine.

Mountainous land and dense under-
growth 76.95 chs.

N. bet. secs. 13 & 14. over rolling land
through scattering cedar and pine.
and dense sage brush.

descend along the N.E. slope of the
mountain.

20.50 Bottom of ravine 500 ft. below top of

Subdivision of T. 23 S., R. 1 W. - Continued

	rains	mountain. course N.E.
40.00		Enter broken white clay hills. The general slope is to the N. E. Set a trachyte stone $11 \times 12 \times 8$ ins. 10. ins. in the ground, for $\frac{1}{4}$ sec. Cot. marked $\frac{1}{4}$ on N. face.
79.85		Raised a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high $\frac{1}{4}$ of cot. Pitt impracticable Sandstone ledge, 70 ft high, bears N.E. $2^{\circ} 45'$.
80.00		At. foot. of ledges walked cross. with 1 notch on N.E. $2^{\circ} 45'$ projecting rock for cot. of secs. 14, 13, 12, 14... and raised a mound of stone 7 ft. base $1\frac{1}{2}$ ft. high $\frac{1}{4}$ of cot. Pitt impracticable From which a pine 12 ins. in diam. bears S. $11^{\circ} E.$ 50 lbs. dist. marked T. 23 S.
		R. 1 W. S 13. B.T.
		A cedar 15 in. in diam. bears S. $52^{\circ} W.$ 60 lbs. dist. marked L.T. 23 S. R. 1 W. S. 14. No other suitable trees within proper distance.
		Land. mountainous. Soil. clay $\frac{4}{5}$ rate. Timber Cedar and pine mountainous land. 8000 chs. Cloud obscures the sun, can take no observation for lat. this day.
40.00	East	on a random line bet. secs. 12 and 13. set temp. $\frac{1}{4}$ sec. cot.
76.15		Intersect. E. bdg. at the C.C. of secs. 12 and 13. Then N.W. run
36.15		West on a true line. over broken clay hills, through pine and cedar, ascend the East slope of Mountain. Set a trachyte stone $16 \times 9 \times 5$ ins. 11 ins. in the ground for $\frac{1}{4}$ sec. Cot. marked $\frac{1}{4}$ on N. face.

Subdivision of T. 23 S. R. 1 N. - continued

chains.	raised a mound of stone 2 ft. base, 1 1/2 ft. high N. of cor. Pits impracticable. This point is about 400 ft above Last Creek bottom.
76.00	sand stone ledge soft, high bed N.E. of cor.
76.15	Bottom of ledge and the cor. of secs. 11, 12, 13 ^{Aug 14}
	Land, mountainous. Soil stony clay. 4th rate. Timber cedar and pine. Mountainous land. 76.15 chs.
	August 26 th 1897

August 27th at 7 A.M. L.M.T., spe
set off $38^{\circ} 49' \text{ W}$ lat. acc; $9^{\circ} 55' \text{ N}$.
on decl. acc; and determine a
true meridian with the solar
at the cor of secs. 11, 12, 13 ^{Aug 14}.

Hence the result:

N. lat secs. 11 & 12.
over broken white clay hills.
through cedar & pine.

40.00 Set a trachyte stone 14 x 12 x 8 ins.
10 ins. in the ground, for 1/4 sec.
cor. marked N. on W. face, raised
a mound of stone 2 ft. base, 2 ft. high
N. of cor. Pits impracticable. From
which a pine tree 10 ins. in diam. bears
 545° N . 8 lbs dist. marked T. 45. B. T.
No other trees within limits.

80.00 Set a trachyte stone 18 x 11 x 5 ins. 12
ins. in the ground for cor. of secs.
1, 2, 11 ^{Aug 14} marked with 5 notches
on the S. and 1 notch on the E. edge
raised a mound of stone 2 ft.
base, 2 ft. high N. of cor. Pits
impracticable. From which a
pine tree 12 ins. in diam. bears 545° N .
15 lbs dist. marked T. 23 S. R. 1 N. S. 11. B. T.
A. pine 12 ins. in diam. bears 785° N .

Subdivision of T. 23 S., R. 17 W. - Continued.

45 lots dist. marked T. 23 S., R. 17 W. S. 2 B.T. No other suitable trees within proper dist.

Land Mountainous.

Soil, stony clay 4th rate.

Timber, cedar and pine.

Mountainous land. \$0.00 chs.

East. on a random line bet. secs.

1st, 12.

40.00 set temp. 1/4 sec. cot.

74.54 Intersect E. bdy. of 7 p. at the C. cot. of secs. 1st and 12.

Hence the run

West on a true line bet. secs. 1st, 12

Over nearly level land. cultivated.

Leave cultivated land, begin ascent.

Enter scattering cedar and pine and broken hills.

Set a black slate stone 16 x 8 x 6 ins. 12 ins. in the ground for 1/4 sec. cot. marked 1/4 on N. face, raised a mound of stone 2 ft base. 2 ft high N. of cot. pits impracticable.

The cot of secs. 1, 2, 11th, 12.

Land Mountainous.

Soil, stony clay 4th rate.

Timber, Cedar and pine.

Mountainous land. 74.54 chs.

North a random line bet. secs. 1st and 2.

40.00 Set temp. 1/4 sec. cot.

74.54 Intersect N. bdy. of 7 p. at the C. of sec. 1st previously.

Hence the runs S. on a true line bet. secs. 1st and 2.

over broken clay hills. Ascend N.W. slope of mountain through scattering cedar and pine.

Top of ridge, 1.50 ft above bottom. bears N. E. 30°.

Set a black slate stone 14 x 12 x 6 ins. 10 ins. in the ground for 1/4 sec. cot. marked 1/4 on N. face, raised a mound of stone 2 ft base. 2 ft high N. of cot. pits impracticable.

60.75 Bottom of ravine 50 ft. deep and ledges down N. E.

87.00 The cot. of secs. 1, 2, 11th, 12.

Land Mountainous

Soil, stony 4th rate.

Timber, cedar and pine.

Mountainous land. 87.00 chs.

Subdivision of P. 23 S. R. 1 N. - Continued.

Chains	August 7 & 8 th at 7 th arm. mtg. of sec. off 38 th 16' W. and lat. arc, 9° 32' N. on the decl. arc, and determine a line meridian with the solar, at the ext. of Secs. 34 and 35. S. bdy., T. 23, S., R. 1 N.
	Thence N.E. by pine N. 0° 1' 37", bet. secs. 34 and 35. Descending through scattering cedar over rolling land.
14.15	Bottom of ravine, 75 ft. deep, coarse N. 10° E. along E. slope.
38.50	Bottom of ravine, 100 ft. deep, coarse 18°.
	Ascending S. slope of mountain over rolling land.
40.00	Set a drachyte stone 19 x 8 x 8 ins 14 ins. in the ground, for 1st st. c. ext. marked 1st on N. face.
	Raise a mound of stone 3 ft. base, 7 ft. high. 9 th of ext. It is impracticable Top of ridge bears E. End 27.
54.00	Bottom of ravine 40 ft. deep, coarse 2 ft.
67.30	Set a drachyte stone 18 x 12 x 8 ins. 13 ins. in the ground for ext. 1 st secs. 26, 27, 34 and 35. Marked with 2 notches on the E. and 1 notch on the S. edges; and raised a mound of stone, 2 ft. base, 1 ¹ / ₂ ft. high, 9 th of ext. It is impracticable land, mountainous.
80.00	Soil, stony, 14 ¹ / ₂ state. Gimbel, scattering cedar and pine dense undergrowth, oakbrush and alder.
	80.00 ch.
	East on a random line bet. Secs. 26 and 35.
140.00	Set a lump 1 st sec. ext.

Subdivision of T. 23 S., R. 10 E.

Chain dist.	Notes
60.00	Intersect N. and S. line at the cor. to secs. 25, 26, 35 and 36. Fences 2 rods 16' off true line, bet secs. 26 and 35.
17.00	Ascending through cedar and pine Enter dense oak brush and artemesia. Top of ridge bears S. 85° 27' N. 85° E. along 27' slope.
25.00	Set a heavy tan stone 18 x 10 x 8 ins. 15 ins. in the ground for 1/4 sec. cor. marked 1/4 on 27' face. Raise a mound of stone 2 ft. base, 1 1/2 ft. high N. of cor. Site impracticable.
44.50	Top of ridge, bears N. 80° 47' N. 80° E. descending. Bottom of ravine, 36 ft. deep, course N. 27'. Enter heavy cedars.
66.60	Same, heavy cedar & top of ridge bears N. 77° E.
70.50	The cor. of secs. 26, 27, 34 and 35. Sand, mountainous.
73.00	Soil, stony & rocky.
100.00	Pine, cedar, top of ridge bears N. 77° E. dense under growth, oak brush and Artemesia. 8000 chs. At this cor. 77° set off 9' 26' N. on the decl. all; and at 12 m. on from last observe the pin on the meridian; the resulting lat. is 38° 47' N.
110.00	N. 0° 1' 27. bet. secs. 26 and 27. Top of ridge, bears S. 80° E. descending through scattering cedar.
119.00	Top of road, bottom of ravine, 100 ft. deep. course N. 24° 27'.
120.00	Ascending over rolling land. Set a gravel stone 20 x 10 x 6 ins. 15 ins. in the ground for 1/4 sec. cor. marked 1/4 on 27' face. Raise a mound of stone 2 ft. base, 1 1/2 ft. high N. of cor. Site impracticable.

Subdivision of R. & 3 S., P. 1 & P. - continued

Chains

47.00

Leave cedar.

60.00

Bottom of ravine, 60 ft. deep, coarse S. 37°.

Began rapid descent over stony soil.

64.00

Enter cedar and pine.

80.00

Set a trachyte rock 20 x 10 x 8 in., 15 in.

in the ground, for cor. to secs. 23, 23,

26 and 27. Marked with 3 notches on

the S. and E. edges. raised a mound

of stone 2 ft. base, 1 ft. high 37° of sec.

Pits impracticable. ^{Plowed} plowed.

A pine 8 in. in diam. bears S. 54° E. 20.

lbs. dish. Marked T. 23 S. R. 14 S. 26 B.T.

No other trees within limits.

Land, mountainous.

Soil, gravelly and stony 3rd and 4th late

Winter, cedar and pine.

Dense undergrowth, oak brush, and

Artemesia. 80.00 ch.s.

August 28th 1895

August 24th

At Thomas A.M. Land Fleet off 3^o at 8th N. or
Lat. arc; and 9° 10' N. Decl. arc; and
determine a true meridian with
the solar, at the cor. of secs. 23, 23,
26 and 27.

Hence 4th mer.

E, on a random line bet secs. 23
and 26.

40.00

Set temp. 44 sec 60.

79.96

Interscet N. and S line 5 lbs. W. of
the cor. to secs. 23, 24, 25 and 26.

Hence 4th mer.

N. 89° 58' 57" on a true line bet.
secs. 23 and 26.

Descending, gain an elevation of 5 ft.
through scattering cedar and
dense oak brush over stony
soil.

17.00

Spad of ravine, coarse S. 37°.

Subdivision of T. 23 S., R. 12 W. - Cont'd

chains	Ascending.
28.00	Ledges.
39.98	Set a trachyte stone $17 \times 10 \times 8$ ins. 12 ^{3/4} ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face. raised a mound of stone 3 ft. base 2 ft. high, N. of cor. Pits impracticable.
62.00	Top of ridge, bears N.W.S. enter heavy cedar and pine.
63.00	Ledges
	descending.
68.00	Bottom of gully, 60 ft. deep, course S. 60° E.
70.00	Leave cedar and pine enter dense undergrowth.
78.00	Enter scattering cedar.
- 79.96	The cor. of secs. 23, 22, 27 and 26. Land, mountainous. Soil, stony 4 th pat. Timber, cedar and pine, dense undergrowth, oak brush and Artemesia.
	79.96 chs.
	Knowing by retrace ment line will not close Upper Nova line bet. secs. 22 ^{3/4} & 27
	Descending over stony soil, through scattering cedar.
11.00	Bottom of ravine 70 ft. deep, course S. E.
	ascending
25.50	Top of ridge, bears S. 2° N. Descending
39.00	Ledges. N. & S.
40.00	Set a trachyte stone $21 \times 15 \times 4$ ins. 16 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face. raised a mound of stone 3 ft. base, 2 ft. high N. of cor. Pits impracticable.
60.00	Head of ravine course S. W.
- 84.00	Interlock N. 3° S. line. 4.50 chs S. of the cor. of secs 21 ^{3/4} & 28.
	Set a trachyte stone $15 \times 12 \times 5$ ins. 10 ins. in the ground for cor. of secs. 27. marked with 2 notches on the S. and 3 ^{1/2} on the E. edges of 23 S. R. 12 W. on N.E. face. raised a mound of 3 ft. base, 2 ft. high N.E. of cor. Pits impracticable.

Subdivision of T. 23 S., R. 17 W. - Continued.

	Chains of building marks on old col. lot for Secs. 21, 22, 23, 27, 28 that pertains to Sec. 27.
	Land, Mountainous
	Soil, rocky, 4 ft. rate.
	Pine, cedar and spruce, dense - undergrowth, oakbrush and <i>Artemesia</i> 8000 chs.
	At this point I set off $9^{\circ}05'$ N. decl. arc; and at 17 hr 1 min p.m., l. m.t., observe the sun on the meridian, the resulting lat. is $38^{\circ}48'N.$
	August 29-
	From the cor. of secs. 22, 23, 26 and 27.
	N. 0° 1' W., bet. Secs. 22 and 23.
	Ascending over stony soil, through scattering cedar, and dense undergrowth.
700.	Leave cedar
11.00	Top of ridge, bears N. $80^{\circ}E.$ and S. $80^{\circ}W.$
15.00	Begin descent, along N. W. slope of ridge over rolling land.
40.00	Set a trachyte stone 20 x 10 x 6 ins. 15 ins. in the ground. for 1/4 sec. cor. marked 1/4 on N. face. raise a mound of stone 2 1/2 ft. base. 2 ft. high. 1 ft. off cor.
	Pits impracticable.
42.00	Bottom of ravine 50 ft. deep, course N. E.
52.50	Begin ascending.
56.70	Enter scattering cedar.
64.00	Top of ridge 50 ft. high. bears ESE and SSW .
68.25	Bottom of ravine 40. ft. deep course N. W. and S.
77.00	Top of ridge, bears N. $60^{\circ}E.$ and S. $60^{\circ}W.$
78.00	Leave cedar, descending.
80.00	Set a trachyte stone 22 x 8 x 6 ins. 16 ins. in the ground. for cor. to Secs. 14, 15, 22 and 23. marked with 3 notches on the S. and 2 on the E. edges. Raise a mound of stone 3 ft. base. 2 ft. high. 1 ft. of cor. Pits impracticable.
	Land, Mountainous
	Soil, stony 4 ft. rate.
	Pine, cedar, dense undergrowth, oak brush and <i>Artemesia</i> 8000 chs.

Subdivision of 9123 S. R. 1 N. - Continued.

chain	August 29th. At 7:00 a.m., from top of hill off 38° 48' 30" Lat. a.s.t.; 910° 30' N. on decl. a.s.t., and determine a true meridian with the sun, at the cor. of secs. 14, 15, 22 and 23.
	Hence 7 1/2 runs.
	5 89° 58' E on a random line bet. secs. 14 and 23.
40.00	Set a temp. for sec. cor.
80.01	Intersect N. and S. line 3 1/2° N. of cor. of secs. 13, 14, 23 and 24.
	Hence 1/4 run
	N. 89° 59' 27" on a true line bet. secs. 14 and 23.
	Descending over rolling land. Stony soil, through dense undergrowth.
25.00	Top of ridge, between N. and S.
28.00	Begin descents
40.00 $\frac{1}{2}$	Set a trachyte stone 20x10x10 ins. 15 ins. in the ground, for 1/4 sec. cor. marked 1/4 on N. face since a mound of stone 3 ft. base, 2 ft. high N. of cor. fit impracticable.
42.00	Ledges, begin rapid descent.
43.75	Bottom of ravine 100 ft. deep. course N. N.
71.00	Bottom of ravine 175 ft. deep course N. E.
76.30	After projects N. E.
80.01	The cor. of secs. 14, 15, 22 and 23.
	Land, mountainous.
	Soil, stony & spate.
	No timber, dense undergrowth.
	<u>Artemesia</u> . ^{to} Mountainous land. 80.01 cor.
	Knowing by retrace ment line will not do Nipper N. on a true line bet. secs. 15 ^{and} 22. descending over rolling land.
44.0	Bottom of ravine 100 ft. deep course N. E.
67.0	Enter cedar.
71.00	Ledges. N & S.
35.00	Begin rapid descent along N. slope of Mountai-
40.00	Set a trachyte stone 24x12x8 ins. 18 ins. in the ground, for 1/4 sec. cor.

Subdivision of T. 23 S., R. 1. W. continued.

	Chains marked $\frac{1}{4}$ on N. face. raise a mound of stone 2 ft. base, $\frac{1}{2}$ ft. high. N. of cor. Pits impracticable.
55.00	Bottom of ravine 400 ft. deep. drains S. W. ascending.
68.00	Top of ridge 200 ft. high, bears N. E. $\frac{1}{2}$ W. descending. through dense sage brush
85.40	Intersect N. and S. line 610 chs. S. of the cor. of secs. 16, 15 and 22 There are set a trachyte stone $20 \times 10 \times 5$ ins. 15 ins. in the ground, for the closing cor. after secs. 15 and 22, marked C.C.T. 23 S. R. 1. W. on E. face with 3 grooves on the S. and E. faces, raised a mound of stone 3 ft. base, 2 ft. high. E. of cor. Pits impracticable. Destroy snags on old ^{compractable} compractable 2 to 15-22 land. Mount arrows. Soil, stony 4 ft. sati. Timber, cedar Dense undergrowth, Artemesia. and Mountainous land. 85.40 chs.

At the cor. of secs. 14, 15, 22 and 23,
I set off $9^{\circ} 04' 30''$ N., on the decl. arc; and
at $12^{\text{hr.}} 1^{\text{m}}$. Lmt., observe the sun on the meridian; the resulting lat. is $38^{\circ} 48' 2''$ N.
N. O. $\frac{1}{2}$ W. bet. secs. 14 and 15.
Descending, over rolling land through scattering cedar.

44.25	Bottom of ravine 150 ft. deep course N.E.
40.00	Top of ridge bears N. E. $\frac{1}{2}$ S. W.
"	Set a trachyte stone $20 \times 12 \times 6$ ins. 15 ins. in the ground. for $\frac{1}{4}$ sec. cor. Marked $\frac{1}{4}$ on N. face. raise a mound of stone 2 ft. base, 2 ft. high N. of cor. Pits impracticable
49.00	Bottom of ravine 100 ft. deep course N.E.
67.15	Top of ridge bears N. E. $\frac{1}{2}$ S. W.

Subdivision of T. 23 S., R. 17 W. - continued.

Chains.	
75.50	Bottom of ravine 100 ft. deep course N.E. Set a trachyte stone 20x12x8 ins.
80.00	15 ins. in the ground. for cor. to secs. 10, 11, 14 and 15. marked with 4 notches on the S. and 2 on the E. edges. raise a mound of stone 3 ft. base, 2 ft. high. N. of cor. Ruts impracticable.
	From which, A cedar 8 ins. in diam. bears N. 60° E 8 lbs. disk. marked T. 23 S. R. 17 W. S. 11. B.T. No other trees within limits Land, mountainous. Soil, stony 4th rate. Timber, scattering cedar. Dense undergrowth, artemesia. Mountainous land, 8000 chrs.
40.00	S 89° 59' E. on a random line bet. secs. 11 and 14. Set a temp. 1/4 sec. cor.
80.00	Intersect N. and S. line. 3 lbs. S. of the cor. of secs. 11, 12, 13 and 14. Hence we run First. on a true line bet. secs. 11 and 14. Ascending over rolling land, through scattering cedar and dense undergrowth.
40.00	Set a trachyte stone 16x9x7 ins. 17 ins. in the ground. for 1/4 sec. cor. Marked 1/4 on W. face raise a mound of stone off base 2 ft high N. of cor. Ruts impracticable.
41.50	Ridge bears N. W. and S. E.
61.00	Bottom of ravine 200 ft. deep course N.W. leave cedar.
72.00	Ravine course N.W.
80.00	The cor. of secs. 10, 11, 14 and 15. Land, mountainous. Soil, stony 4th rate Timber, scattering cedar, and dense undergrowth, artemesia. Mountainous land. 8000 chrs.

Subdivision of T. 23 S., R. 1 W. - Continued

	Chains. Aug 1st 30; at 7h 7m A.M., l.m.t., We set off 384' on lat. arc; 8' $\frac{1}{2}$ on dec. arc; and determine a true meridian with the polar, at the cor. of secs. 10, 11, 14 and 15. Knowing by retracement this line will not close, we run
	West on true line bet. secs. 10 and 15. Ascending the E. slope of Mountain over rolling land, dense sage brush and cedar.
13.50	Top of ridge and Mountain bears N. 25° E. and 125° N. descend
35.00	Bottom of ravine 150 ft. deep, course N. W.
40.00	Set a trachyte stone 15x8x8 ins. 10 ins. in the ground, for 1/4 sec. cor. marked 'N. on N.E. face raised a mound of stone 7 ft. base, 2 ft. high. N. of cor. Pits impracticable.
45.00	Top of ridge bears N. 25° S.E.
8547	Intersect N. and S. line 714 chs. 50' E. of the cor. to Secs. 9, 10, 15 ^{and} 16, where I placed a trachyte stone 20x10x6 ins 10 ins. in the ground, for closing cor. of sec. 9 and 15; marked C.C. on E. face, with 4 grooves on the S. and 3 on the E. faces raise a mound of stone 3 ft. base, 2 ft. high E. of cor. Pits impracticable. We destroy marks on old cor. pertaining to sec. 9, 10 ^{and} 15 ^{and} mark it as the N. E. cor. of sec. 16.
	Land, mountainous.
	Soil, stony & rate.
	Timber, scattering cedar; dense undergrowth. Artemesia.
	Mountainous land. 8547 chs.
	From the cor. of secs. 10, 11, 14 and 15.
	We run.
	N. 0° 1' W. bet. secs. 10 and 11.
	descending along the E. slope of the Mountain over rolling land, stony soil.
36.00	Bottom of ravine 220 ft. deep, course N. W.

Subdivision of S. 23 S., R. 1 W. - Continued

Chains.	
40.00	Set a trachyte stone 16 x 10 x 8 ins. 10 ins. in the ground. for 1st sec. cor. marked 1/4 on N. face. raised a mound of stone 3 ft. base, 2 ft. high. 1 ft. off cor. Pit impracticable. Top of ridge bears No. 24. 2d st.
57.80	Leaves cedar and pine.
53.50	Bottom of ravine 250 ft. deep. leaves 16. 2 ft. begin ascending along W. slopes of mountain.
67.25	Leaves cedar and pine.
69.00	Wood good, bears 15. 2 ft.
73.10	Set a trachyte stone 22 x 15 x 10 ins. 16 ins. in the ground. for cor. to sec. 2, 3, 10 and 11. Marked with 5 notches on the S. and 2 on the E. edges. raise a mound of stone 3 ft. base, 2 ft. high, 1 ft. off cor. Pit impracticable.
80.00	Land, mountainous. Soil, stony 11 th mile. Dense timber, scattering cedar and pine. Dense undergrowth. Butterflies and mammals. 800 ac. a.
	C. on a prairie line, bet. secs. 3 and 11.
40.00	Set a trap. 1st sec. cor.
80.07	Inclined N. and S. line 3 links S. of cor. to secs. 1, 7, 11 and 12. Then c. 1/4 mile S. 89°59' 27" on a tree line bet. secs. 2 and 11. ascending to slopes of mountain over scattering cedar and stony clay soils, through scattering cedar and pine.
23.00	Begin steep ascent.
40.03	500 ft. above sec. cor. Set a trachyte stone 16 x 8 x 8 ins. 10 ins in the ground. for 1st sec. cor. marked 1/4 on N. face. raise a mound of stone

Sub-division of N. 23 S., R. 17 W. - continued.

Chains.	3 ft. base, 2 ft. high. N. of cor. Pits impracticable
	At this cor. N.E. set 8° 43' N. on decl. arc; and at 12 noon "L.M.T.", observe the sun on the meridian. The resulting lat. is 38° 50' N
45.00	Top of mountain ridge bears N. E. $\frac{1}{2}$ S. W. declination.
57.00	Bottom of ravine 30 ft. deep course S. 27° along S. slope of ridge.
73.00	Point of high ridge bears S. begin descent. leave cedars.
80.07	The cor. of secs. 2, 3, 10 and 11. Land, mountainous. Soil, stony with rocks. Timber, cedar
	Dense undergrowth. Adonisia.
	Mountainous land. 80.07 cor.
100.00	N. 0° 1' 27" over a random line bet. secs. 2 and 3. Set lumps, 1/4 sec. cor.
107.00	Intersc. a cor. to secs. 2 and 3 on N. side of 1, 2, 3 S. N. 1 W. Hence 1/4 sec.
	100° 1' 6" over a true line bet. secs. 2 and 3. Ascending over nothing but, stony soil, through cedar and fir trees and sage brush.
117.00	Bottom of ravine 30 ft. deep course 16.267 W.
147.00	Set a trachyte stone 22 x 10 x 8 ins. 16 ins. in the ground for 1/4 sec. cor. Marked 1/4 on 27° face. raise a mound of stone 3 ft. base, 2 ft. high. N. of cor.
	Pits impracticable.
152.60	Top of ridge 20 ft. high bears N. S. 57° W. begin descent.
156.60	Trachyte cliffs 30 ft. high bear E. S. 17° W.
160.13	Bottom of ravine, 100 ft. deep course S. 27° along E. slope of ravine.

Subdivisions of T. 23 S., R. 17 con't

Chains	
78.10	wood road. bears S.E. $8^{\circ} 27' 40''$ N.
87.00	The cor. of sec. 2, 3, 10 and 11. Land, mountainous. Soil, stony & rocky. Timber, cedar. Dense under growth, <i>Artemesia</i> ^{ed} Mountainous land 87.00 cho.
12.70	August 31: at 7:30 a.m. I met Mr. set off $38^{\circ} 50' N$ on lat. arc, $80^{\circ} 27' 00''$ E. on dec. arc; and determine a true meridian with the solar at the cor. of Secs. 2, 3, 10 and 11. Hence Wipun.
30.50	West on a true line bet. sec. 3 & 10, descending along the N. slope of the Mountain, over rolling land stony soil, through dense undergrowth. Bottom of ravine 160 ft. below cor. course N. Bottom of ravine 300 ft. deep, course N. N. begin ascent.
40.00	Set a trachyte stone $22 \times 12 \times 10$ ins. 16 ins. in the ground. for 1/4 sec. cor. marked $\frac{1}{4}$ on N. face. raise a mound of stone 3 ft. base, 2 ft. high. N. of cor. Site impracticable.
43.50	Top of ridge 300 ft. high above N. S. 15° E. under scattering cedars and pines, begin descent.
50.00	Bottom of ravine 200 ft. deep course S. N. Top of ridge, bears $16^{\circ} 34' 57''$ N. from true meridian. Foot of mountain. 800 ft. below cor. cor. Set a trachyte stone $24 \times 15 \times 10$ ins. 18 ins. in the ground. for cor. to sec. 3, 4, 9 and 10. Marked with 3 notches on the S. and 3 notches on the E. edges. raise a mound of stone 3 ft. base.
65.00	
70.50	
80.00	

Subdivision of 9 1/4 S. R. 1 N. - Continued

Chorus.	<p>2 ft. high W. of cor. Pits impracticable Land, mountainous, Soil, stony. 1/2 rate Timber, cedar & pine. Mountainous land. 80.00 chs.</p>
\$ 0.01 E. on a tree line bet. sec.	
9 and 10.	One rolling land through dense sage brush. Ascend.
30.00	Spur projects N.
33.65	Ced. wood, road, bears. 6 th N. E. Entd. scattering cedar.
40.00	Set a trachyte stone 20x10x5 ins. 15 ins. in the ground, for 1/4 sec cor. marked W. on N. face, raised a mound of stone 3 ft. base 2 ft. high W. of cor. Pits impracticable. From which a trachyte ledge 5x 3x3 feet stands 70.5 lbs. dist. marked a cross and same.
50.50	Top of ridge, bears 7P 3E.
- 80.00	Intersect E. 3 rd N. line 54.7 chs. E. of Closing Cor. To sec 9 1/2. Set by us. Therefore.
	Set a trachyte stone 20x12x6 ins. 15 ins. in the ground for 1/4 cor. of sec. 9 1/2. Marked C.C. on N. face with 4 grooves on S. and 3 grooves on the E. faces, raised a mound of stone 3 ft. base 2 ft. high W. of cor. Pits impracticable. Land, mountainous, Soil, stony. 1/2 rate Timber, scattering cedar Dense under growth, and mountainous, land 8000 chs.

Subdivision of 9735, R. 14th - continued

	chains	From the cor. of sec. 3, 4, 9 & 10 Established this day, the cor. of secs. 3 and 4 on the N. bdy. is plainly visible. The point for said cor. N. 00 1' N. on a random line bet. secs. 3 and 4.
40.00		Set temp. 1/1 sec. cor.
86.99		Intersect N. bdy. of 9 at the cor. of sec. 3 and 4. Hence we run S. 0° 0' E. on a true line bet. secs. 3 and 4 over nearly level land through white sage flat.
31.00		Respond, from Lost Creek to Lewis Valley, bears N. E. and S. along roads.
113.00		Leave road. bears S. 17° 30' W.
46.99		Set a black slate stone 18 x 8 x 6 ins. 12 ins. in the ground for 1/1 sec. cor. marked with a flat face, raised a round of stone 3 ft. base, 2 ft. high N. of cor.
86.99		Pits impracticable. The cor. of secs. 3, 4, 9 and 10. Land, level Soil, white clay, 3rd rate. No timber. Level land 86.99 chs.
		August 31 st at this cor. I p. set off 8' 2 1/2" N. on decl. arc; and at 17 m. on observe the sun on the meridian; the resulting lat. is 38° 50' N.
		Showing by plumb line will not close, No run West on a true line bet. secs. 4 and 9. over level land.
27.00		Wood road bears N. 30° W. and 130° E.
31.60		Wood road, bears N. 30° S. at foot of clay hills, leave level land enter pine and cedar ascend
140.00		Set a black slate stone 18 x 10 x 6 ins. 12 ins. in the ground for 1/1 sec. cor.

Subdivision of G. 23. S., R. 1 N. - continued.

chains.	marked $\frac{1}{4}$ on N. face. raised a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cot. Pits impracticable.
50.00	Begin descent along W. N. slope of broken clay and gypsum hills.
84.30	Intersect N. by S. line 5. 9.5 chs. S 120° of the cot. of secs. 4, 5, 8 and 9. Set a trachyte stone $18 \times 10 \times 6$ ins. 12 ins. in the ground for c-bounding cot. of secs. 4 and 9. marked C.C. on E. face, with 5 grooves on S. and 4 grooves on the E. faces. raised a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, E. of cot. Pits impracticable. and destroy signs on all cot. pertaining to sec. 4 and 9. Land, level and mountainous.
	Soil, stony clay. $\frac{1}{4}$ th rate. Timber, scattering cedar. Mountainous land. 47.70 chs. Level land. 36.60 chs.
	At 30 $\frac{2}{3}$ 1897

August 31st: At 7 h. 30 m, a.m., mid., He set off $38^{\circ} 46'$ on lat. arc; $8^{\circ} 7' N$ on decl. arc; and determine a true meridian with the solar, at the cot. of 3, 4, 33 and 34. on S. side of N.P.
Hence N.E. run

N. 10° 01' W. int. secs 33 and 34.

Over rolling land through dense sage brush and scattering cedar.

Descend.

Bottom of ravine 100 ft. deep. course N.

Bottom of ravine 60 ft. deep. course N. 70° W.

Set a trachyte stone $18 \times 15 \times 8$ ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cot. marked $\frac{1}{4}$ on N. face. raised a mound of stone 2 ft. base, 2 ft. high N. of cot.

Pits impracticable.

At 3 p.m. leave. scattering cedar.

Subdivision of A. T. S. S., R. 12th Contra Costa Co.

Lines

49.00	(Bottom of ravine 250 ft. below C. O.). course N. 60° W. ascend 2 foot road. bears E. 25° N. Timber scattering cedar & pine.
50.05	Top of ridge. slopes N. 1.
52.50	Bottom of ravine 50 ft. deep. course N. Set a trachyte stone 18 x 8 x 6 inches. 12 in. in the ground for 1/4 sec. cot. 27, 28, 33 & 34. marked with 1 notch on the S. and 3 notches on the E. edge. raised a mound of stones at base. 1/4 ft. high N. of cot. Pits impracticable.
55.00	Land mountainous.
57.50	Soil, stony 1/4 miles.
60.00	Timber, scattering cedar.
62.50	Mountainous land 900 acres.

Conspanderon Line Sec. 322.

27 & 34.

40.00	Rock dump. 1/4 sec. cot.
40.05	Intersection N. $\frac{2}{3}$ S. 5. line 34 to N. of the cot. to secs. 26, 27, 34 and 35. 1/4 fence. 2 ft. high.
42.50	N. 89° 59' N. on a line between 27 and 34.
45.00	Over rolling land, through scatter- ing cedar. descend
47.00	Foot road in bottom of ravine 90 ft. deep. course S. 27.
48.00	Set a trachyte stone 14 x 12 x 10 and 18 in. in. the ground for 1/4 sec. cot. marked 1/4 on N. face, raised a mound of stone 2 ft. tall. 1/4 ft. high N. of cot.
48.50	Pits impracticable.
49.00	Bottom of ravine 70 ft. deep. course S. E.
50.00	Top of ridge bears N. S. E. & S. W.
52.50	The cot. of secs. 27, 28, 33 and 34.

Sub-division of T. 23. S., R. 1. W. - Continued.

Chains	<p>Land, mountainous Soil, gravelly and stony 3rd & 4th rate. Timber, scattering cedar. August 31st: at this cor. I set off 8° 21' N. on decl. acc; and, at 12th noon, loc. observe the sun on the meridian the resulting lat. is 38° 47' N. <u>Mountainous land. 80.05 chs.</u></p>
40.00	West on a random line bet. secs. 28 and 33. Set temp. $\frac{1}{4}$ sec. cor.
80.21	Entered N. and S. line 8 lbs. S. of the cor. to secs. 28, 29, 32 and 33. Set by us. Thence we run S 89° 57' E. on a true line bet. secs 28 and 33. Ascending over rolling land and stony soil, through scattering cedar. Set a trachyte stone 22 x 12 x 8 ins.
110.21	12 ins. in the ground. for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, raised a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high. N. of cor. Pits impracticable. Top of ridge bears N. N. $\frac{3}{4}$ S.
43.00	Dry wash course. N. N. $\frac{3}{4}$ S. bottom of slope wood, road bears N. N. $\frac{3}{4}$ S. E.
50.25	
52.35	
54.56	
80.21	Begin ascenit. The cor. of secs. 27, 28, 33 and 34. Land, mountainous. Soil, stony 4 th rate. Timber, scattering cedar. <u>Mountainous land 80.21 chs.</u>
	N. 0° 07' W. in a random line bet. secs. 27 and 28.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Entered Rand N. line 8 lbs. E. of the S. N. cor. of sec. 27.

Subdivision of 91/43 S., R. 1 W. - continues

Chain.				
	Therefore sp.			
	set a trachyte stone, 20x10x6 ins. 18 ins. in the ground, for closing cot. to secs. 28 and sec. 27.			
	Marked C.C. on S. face, with 3 grooves on the E. and 2 grooves on the S. faces raised a mound of stone 3 ft. base 2 ft. high. S. of cot. Pits impracticable.			
	Thence N.E. run.			
	S. 0° 01' E. on a true line betw. secs. 27 and 28. descending over rolling land, through scattering cedar.			
12.25	Bottom of ravine 75 ft. deep course N.			
33.50	Top of ridge bears E. ^{and} S.W.			
40.00	In ravine 75 ft. deep, course N. set a trachyte stone 18x10x6 ins. 12 ins. in the ground, for 1/4 sec. cot. marked a 1/4 on N. face. raised a mound of stone 2 ft. base, 1 1/2 ft. high. S. of cot. Pits impracticable.			
53.10	Top of ridge bears N.E. ^{and} S.W.			
63.70	Bottom of ravine 70 ft. deep course S.W.			
69.00	Top of ridge 40 ft. high, bears E. ^{and} S.W. descending.			
- 80.00	The cor. of secs. 27, 28, 33 and 34. Land, mountainous Soil, stony 4 th rate. Timber, scattering cedar. Mountainous land			80.00 chs.

September 1st; at 7th 30 m A.M., L.M.,
I reset off 38° 47' N. on lat. arc; 8° 05' N.
on decl. arc; and determine a
true meridian with the solar,
at the cor. of secs. 29, 30, 31 and 32.
which is a trachyte stone 8x12
x10 ins. above the ground.

Subdivision of N 23 S, R 17 W, continued.

Chain.	Marked as described by the Surveyor General. Spence trees have been obliterated. We rebuild the mound of stone 3 ft. base, 2 ft. high. N. of cor.
	Thence westerly.
	N. on a random line bet. secs. 30 and 31.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
78.91	Intersect N. bdy. of N. 3 lks. S. of Cor. of secs. 25, 30, 31 and 36, which is a trachyte stone $8 \times 14 \times 14$ ins; above the ground, marked as described by the Surveyor General.
	Thence run
	S. $89^{\circ}59' E.$, on a true line bet. secs 30 and 31.
18.00	Over rolling land, descending.
	Flood road, bears $N. 45^{\circ} E.$ ^{and} S. $77^{\circ} W.$
	Begin ascending, through scattering cedar.
38.91	Set a trachyte stone $18 \times 8 \times 6$ ins. 12 ins. in the ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face. raised a mound of stone. 2 ft. base, $1\frac{1}{2}$ ft. high. N. of Cor.
	Plot impracticable.
53.60	Lim. tree, cedar 30 ins. in diam. Marked with 2 notches on E. and W. sides.
65.00	Top of ridge bears $N. E.$ ^{and} $S. W.$.
78.91	On the cor. of secs. 29, 30, 31 and 32. Land, mountainous.
	Soil, stony + ^{st.} etc
	Timber, scattering cedar.
	mountainous land
	78.91 cor.

September 1st; at 9th 30th a.m., L.M.T., I set off $38^{\circ}48' N.$ on lat. arc, $8^{\circ}02' W.$ on decl. arc; and determine a true meridian with the polar,

Subdivision of T. 7 S., R. 12 E. - Continue

claim, at the cor. of secs. 19, 20, 29 and 30, which is a sandstone, $8 \times 12 \times 5$ ins. above the ground, marked as described by the Surveyor General. Bearing trees have been obliterated. rebuilt the mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Hence N.E. run

N. $89^{\circ}59'7''$ on a random line bet. secs. 19 and 30.

Set temp. $\frac{1}{4}$ sec. cor.

Intersect N. bdy. of T. 2 lks S. of cor. of secs. 19, 24, 25 and 30, which is a brachyte stone $7 \times 6 \times 6$ ins. above the ground, marked as described by the Surveyor General.

Hence N.E. run.

S. $89^{\circ}58'8''$, on a true line bet. secs. 19 and 30. over level land.

Begin ascending.

Set a brachyte stone $18 \times 12 \times 6$ ins. N. ins. in the ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, raised a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

It's impracticable.

Begin ascending over rolling hills

Bottom of ravine, 40 ft. deep. Course S.

- 78.96: The cor. of secs. 19, 20, 29 and 30. Land, level and mountainous. Soil, clay and gypsum $4\frac{1}{2}$ rates. No timber.

Survey 54.50 acs. Mountainous. 28.46 acs.

September 1st; at this cor. N.E. set off $7^{\circ}59'30''$ on decl. arc; and at 12th noon, t.m.t., observe the sun on the meridian; the resulting lat. is $38^{\circ}45'7''$.

Mountainous land

78.96 acs.

Subdivision of T. 23 S., R. 1. W. - continued.

- chains. September 1st 1897, At 3 h. 0 m. p.m. l.m.t.
 I. p. set off 38° 48' 30" N. on lat. arc; 7° 57' N.
 on decl. arc; and determine a true
 meridian with the solar, at the Cots.
 of secs. 17, 18, 19 and 20. Which is a
 mound of stone recognized by the
 settlers as the cot.
- I p. rebuild the cot. as follows:
 Set a cedar post 3 ft. long 6 & 4 ins. sqy.
 2 ft. in the ground, for cot. of secs.
 17, 18, 19 and 20 marked T. 23 S. S 17. on
 N.E. R. 1. N. S. 20 on S.E. S 19 on S.W.
 S. 18 on N. W. faces; with 5 notches on
 the E. and 3 notches on the S. edges,
 dig pits 18 x 18 x 12 ins. in each
 sec. 5 1/2 ft. deep; and raised a
 mound of earth 4 ft. base, 2 ft. high
 N. of cot.
- Hence I p. run 78.89° 58' N. on
 a random line bet. secs. 18 and 19.
 Set tempo. 1/4 sec. cot.
- 40.00 Intersect N. bdy. of T. 10 lbs. N. of the
 cot. of secs. 13, 18, 19 and 24.
 Which is a trachyte stone 8 x 14 x 14 ins. above
 ground, firmly set and marked as
 described by the Surveyor General.
- Hence I p. run
 N. 89° 58' E. on a true line bet. secs.
 18 and 19. ascending
 over rolling land -
- 16.30 Wagon road to Glenwood bears N
 and S.
- 39.00 Set a cedar post 3 ft. long 4 in. square
 2 ft. in the ground, for 1/4 sec. cot.
 Marked 1/4 on N. face. dig pits
 18 x 18 x 12 ins. E. and N. of cot. 3 ft.
 deep, and raised a mound of earth
 3 1/2 ft. base, 1 1/2 ft. high. N. of cot.
- 59.00 Bottom of ravine 150 ft. deep. course
 S. W.
- 71.00 Bottom of ravine 75 ft. deep. course S. W.

Subdivision of T. 23 S., R. 1 W. - continued

chains. 73.00	Top of Knob, on ridge base, N. ^{W.} S. Begin descending.
79.00	The cor. of secs. 17, 18, 19 and 20. Land, mountainous. Soil, clay and gypsum. No timber. Mountainous land. 79.00 cts.

+

External boundaries of this P. do not close within proper limits.

Therefore, retrace as follows:

We begin at the cor. of T. 22 ^{and} 23 S
Rd., ^{and} N. established by us. Aug. 15-189

Thence we run S. on a blank line.
40.00 cts. after diligent search no old $\frac{1}{4}$ sec.
cor. can be found, and at 80.55 cts.

We find the cor. of secs. 16, 9 ^{and} 12.

E. 117 cts. dist. which is a trachyte
stone, $6 \times 4 \times 8$ ins. above ground, marked
with 1 notch on the N. and 5 notches on
the S. The course of this line is
therefore N. 0° 50' $\frac{1}{2}$ f.

Thence we run S.

searching diligently at intervals of
40. cts. and find no old $\frac{1}{4}$ sec. or
sec. cor. and at 163.89 cts. we
find the cor. of secs. 13, 18, 19 and 24.

E. 153 cts. dist. which is described in
subdivisions. The course of this line
is therefore N. 0° 32' $\frac{1}{2}$ f.

Thence we run S. bet. secs. 19 ^{and} 24
40.78 cts. we find the $\frac{1}{4}$ sec. cor. E. 47 cts. dist. which
a trachyte stone $8 \times 5 \times 4$ ins. above gr
marked $\frac{1}{4}$ on N. face. The course of this
line is therefore S. 0° 40' E.

Thence we run S.

40.89 cts. we find the cor. of secs. 19, 24, 25 ^{and} 30.

E. 154 cts. dist. which is a trachyte stone
 $7 \times 6 \times 6$ ins. above ground
marked as described by the Surveyor
General. The course of this line

Subdivision of R. 23 S., R. 1 Th.-concluded

is therefore $\text{Tr. } 70^{\circ} \text{ E.}$ dish 20.93. etc.

Thence N.E. runs S.

sec. 25 Th. 30.

41.04 chs. we find the coo. of sec. 20. E. 16 lbs.
dish, which is a brachite stone 6 x 5 x 4
ins. above ground. marked upon
W. face. The course of this line
is therefore $30^{\circ} 13' \text{ E.}$

Thence N.E. runs S.

39.83 chs. we find the coo. of sec. 25, 30,
 $31^{\frac{1}{2}} 36.$ E. 38 lbs dish which is a brachite
stone $8 \times 14 \times 14$ ins. above ground.
marked as described by Mr. Leavenworth & Son at
The course of this line is therefore
 $50^{\circ} 33' \text{ E.}$

This brings the closing end of the
exterior boundaries within the limits
therefore, we do continue the
retracement.

Sept. 12th 1897.

General Description.

This portion of the township is
all-most entirely mountainous, there
being but a small portion of sec.
3, 4, 5, 6, occupied by a small white
sage flat, the land is stony clay
and gypsum.

The land is not good for
agriculture, and but a small
portion along the East road
bottom would be considered good
grazing. A. W. Buchanan has
a claim in the East road bottom
in R. 1 E. with a few acres in sec.
1, R. 1 W. along the E. side of the county
road; Richard Shaw and Peter Cook
have claims in the N.E. of sec. 12
and the S.E. of sec. 1. on the N. side
of the county road. Their lines are
not well defined, but the land.

Subdivision of 9.23 S. R. 4 N.

Cultivated lies along the creek bottom, Samuel Nebeker resides south of Sigurd, he has no claim upon this township.

John and Ole Dastup and Christian Myrd are residents of Sigurd, none of them have claims in this Township.

Nephi Anderson, could not be located.

There is a scattering growth of cedar and juniper pine throughout the Township.

There is but little water and none passes through the township except Lost creek which passes across the N.E. and S.E. corners.

There is no visible indications of mineral in this part of the Township.

Subt D. Page
George O. Swain
U.S. Deputy Surveyor

Retacement, T. 23 S., R. 1 W.

chains. Sec. 31 does not close within the proper limits therefore we retrace line between secs. 31^{and} 32 as follows;

We begin at the cor. of secs. 31^{and} 32 over S. bdy. of T. 23 S., R. 1 W. already described.

Hence we run N. on retacement bet. secs. 31^{and} 32, and at 4000 chs.

After diligent search no old 1/4 sec. cor. can be found, and at 80.38 chs. we find the cor. of secs. 29, 30, 31^{and} 32.

Previously described N. 1.50 chs. dist.

The course of this line is therefore N. 134^W,
and distance 80.39

Sec. 30 does not close within the proper limits therefore we retrace line between secs. 29^{and} 30 as follows:

We begin at the cor. of secs. 29, 30, 31^{and} 32 already described.

Hence we run N. on retacement bet. secs. 29^{and} 30, and at 40.00 chs.

After diligent search no old 1/4 sec. cor. can be found and at 80.44 chs. we find the cor. of secs. 19, 20, 29^{and} 30.

Previously described N. 1.51 lbs. dist.

The course of this line is therefore N. 0° 21' W.

Retracement, P. T. S., R. 1. 2P, Continue

Chains.

Sec. 19. does not close within the proper limits, therefore we retrace the line betw. secs. 19^{and} 20 as follows;

We begin at the cor. of secs. 19, 20, 29^{and} 30 already described.

Hence we run N. on retracement betw. secs 19^{and} 20. and at 40.00 chs. after diligent search no old 1/4 sec. cor. can be found, and at 81.70 chs.

We find the cor. of secs. 17, 18, 19^{and} 20. previously described, 102.700 chs. dist. The course of this line is therefore N. 1° 24' 47" and distance 81.72 chs.

Sec. 18. does not close within the proper limits, therefore, we retrace the line betw. secs. 17^{and} 18. as follows;

We begin at the cor. of secs. 17, 18, 19^{and} 20 previously described.

Hence we run N. on retracement betw. secs. 17^{and} 18. and at 40.00 chs. after diligent search no old 1/4 sec. cor. can be found. and at 80.40 chs.

We find the cor. of secs. 7, 8, 17^{and} 18.

which is a trachyte 4x8x5 and 4 ins above ground firmly set. and marked with 5 notches on the E. and 4 notches on the S. edges. It looks dark

The course of this line is therefore
No. 32 1/2.

Albert D. Parker
George C. Brown
U.S. Deputy Surveyor

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Final Oaths of Deputy Surveyors and their Assistants.

LIST OF NAMES.

A list of the names of the individuals employed by
....., United States Deputy Surveyor, to assist in running, measuring, and
marking the lines and corners described in the foregoing field notes of the survey of

showing the respective capacities in which they acted:

....., Chainman.

....., Chainman.

....., Moundman.

....., Moundman.

....., Axman.

....., Axman.

....., Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted
....., United States Deputy Surveyor, in surveying all
those parts or portions of the

..... of the base
and meridian, of which are represented
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
corner monuments established, according to the instructions furnished by the United States Surveyor
General for

....., Chainman.

....., Chainman.

....., Moundman.

....., Moundman.

....., Axman.

....., Axman.

....., Flagman.

Subscribed and sworn to before me this
day of 189



Final Oath of United States Deputy Surveyor.

I, _____, United States Deputy Surveyor, solemnly swear that, in pursuance of instructions received from _____, bearing date of _____, United States Surveyor General for _____, day of _____, 189_____, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of United States, surveyed all those parts or portions of _____
of the _____
and _____ meridian, in the _____ of _____, which are represented in foregoing field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and the foregoing are the *true* field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor

Subscribed by said _____, United States Deputy Surveyor, }
and sworn to before me this _____ day of _____, 189_____. }



APPROVAL.

Office of the United States Surveyor General,

Salt Lake City, May 26th, 189_____
The Subdivisions of the

23rd Range West of the Salt Lake Base and
Meridian Blocks

Robert Stagg and George F. Swan
exec
under his Contract No. 209, dated December 1st, 1896, having critically examined, the necessary corrections and explanations made, the said field notes, and the they describe, are hereby approved.

Jacob W. K. C.

United States Surveyor G

I certify that the foregoing transcript of the field notes of the above-described surveys in

, has been correctly copied from the original notes on file in this

United States Surveyor Gen

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BOOK A-250

FIELD NOTES

OF THE SURVEY OF

The
 North Boundary
 of
 Township No. 23 South
 Range No. 1 West.

of the Salt Lake Base Meridian,

In the State of Utah,

AS SURVEYED BY

Albert D. Page, United States Deputy Surveyor

Under his Contract No. 209, dated December 26th, 1897.

Survey commenced August 13th, 1897.

Survey completed August 22nd, 1897.

(1210-2, v. n.)

No. 1 Day length 3-41-72-1
 " " hours 36-00 " 3-17-72
 " " " minutes 28-62 "

Names and Duties of Boardmembers.

James M. Lantz Chairman

James Holdaway chairman

Douglas A. Swaney chairman

Oscar A. Snoot Jr. chairman

James M. Lantz Moderator

James Holdaway Moderator

James Holdaway Moderator

For preliminary affidavits see book "O"

BOOK A-250

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Volume # R0250

Meanders Page

Preliminary Oaths of Assistants.

We, and do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of

, Chainman

, Chainman

Subscribed and sworn to before me this }
day of , 189 . }

SEAL
S. SEAL &
189

We, and do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

, Moundman

, Moundman

Subscribed and sworn to before me this }
day of , 189 . }

SEAL
S. SEAL &
189

We, and do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corn and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

, Axmen

, Axmen

Subscribed and sworn to before me this }
day of , 189 . }

SEAL
S. SEAL &
189

I, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability in the survey of

, Flagman

Subscribed and sworn to before me this }
day of , 189 . }

SEAL

Not boundaries of T. 23 S., R. 12 E.

Survey commenced August 13rd 1897
and executed with the instruments
described in book A & B

August 13th, At 7 a.m., L.M.T., We
set off 38° 5' N. or lat. deg; 11° 56' N.
on decl. deg; and determine
a true meridian with the solar,
at the cor. of T. 22nd 23 S., R. 12th E.
on the Salt Lake Meridian re-established by us.

Hence we find

West on a random line along the
N. bdy. of T. 23 S., R. 12 E., setting temp.
14 sec. and sec. cor. at intervals of
40.00 chs.; and at 317.72 chs.,
intersect N. 34 S. line 28.62 chs. N.
of the just for cor. of sec. 4, 5, 32 & 33.
which we take from stamp of bearing title.
For notes of re-established cor. see sub-
divisions of this Township.

This is the bdy. on the allowable
limits. Therefore, to prove the cor-
rectness of our work, we proceed
to the 1st cor. of T. 22nd 23 S.
R. 1st 2nd E. which is a trachyte
stone 8 x 10 x 8 in., above ground,
marked 6 notches on N.E. 5th edges, and
W.C. on N.W. face ^{and} place as described in the
subdivisions of this Township. August 13rd 1897.

August 21st; At 7 h 30 m. a.m., L.M.T.,
we set off 38° 5' N. or lat. deg; 11° 56' N.
on the decl. deg; and determine a
true meridian with the solar, at
the cor. of secs. 4, 5th 5 re-established
by us August 15th 1897.

Hence we run C. along the N. bdy
of sec. 4, and after allowing
for the correction of the C. bdy.

We place the fractional distance
in the W. 1/4 mile adjacent the old road,
and set claim to the P.S. south one.

North body, off. P. 7355, R. 1 N.E.

Ascend along ridge. bears E.
through scattering cedar.

43.90 Bottom of ravine. 350 ft. deep course
S.W.

31.00 Top of ridge. bears S.W. descend.

44.34 Set a cedar post 8 x 6 ins. 3 ft. long
2 ft. in the ground. for 1st set of test.
Marked 1/4 on S. face; dig pits, 18 x 18
x 12 ins. E. and W. of post 3 ft. dist.
and raise a mound of earth 3 ft. base,
1/2 ft. high S. of post.

48.30 Bottom of ravine. 150 ft. deep course
N. 65° E. Ascend over gypsum hills.

66.30 Top of ridge. bears S.W. descend.
Set a trachyte stone 15 x 10 x 8 ins.
10 ins. in the ground for 2nd set of
test. 3 ft. marked E. & W. S. of post.

3 gr. mounds on S. E. S.E.
S. faces raised a mound of stones
2 ft. base, 2 ft. high S. of post.

Pits impracticable
Land, mountainous

Soil, clay & gypsum 4 ft. pale.

Scattered cedar.

Mountainous land, 84.34 ch.

Sky being over cast. prevents observation
for latitude.

East along the N. body of sec. 3. outjutting and
descend.

1.00 End of slope. enter white sage flat.

22.25 Stage road, to East Creek valley.
from Liver Valley course N. E. S.W.

37.00 Leave sage flat, at foot of mountain.
Ascend N. slope. Dense sage brush.

40.00 Set a trachyte stone 18 x 10 x 8 ins.
12 ins. in the ground for 3rd set of test.
Marked 1/4 on S. face; raised a mound
of stone 2 ft. base, 2 ft. high S. of post.
Pits impracticable.

50.00 Enter scattering cedar ^{my pine}.

North side, of. 9. 23.S., R. 1 N.P.-continued.

55.60	Trachyte Cliffs 75 ft. high, bears N.E. ^{30° S.W.}
66.00	Top of ridge, bears N.E. ^{20° S.W.}
71.80	Bottom of ravine, 60 ft. deep, course N.
80.00	Set a trachyte stone 20 x 10 x 6 ins. 1 ins. in the ground following cor. of secs. 2 ^{and} 3. marked C.C.
84.	On the S. 4 grooves on the W. and 2 grooves on the E. faces. raised a mound of stone 2 ft. base, 2 ft. high. S. of cor. Pits impracticable. Land, mountainous.
	Soil; clayey and stony. silt siltate. Pines, cedar and all pine. Mountainous land ^{giddens under growth} 44 chs. Level land. 36 chs.

August 27th. At 9 a.m., L. m. 5, Spec
set off 38° 5' N. lat. acc. 11° 37' N.
Br. decl. acc. and determine a
true meridian with the solar.
At the closing lot of Secs. 7 ^{and} 3.

Hence N.E. along Nobby Mtn.
Over rolling land, through scattering
red cedar and pine, and dense sage brush
descend.

9.00	Top of mountain, and ridge, bears N. 7.5° E. ^{and} long. 35° S. Slope. descend. Set a trachyte stone 17 x 8 x 5 ins. 12 ins. in the ground. for 1 ^{and} 2 sec. 2. marked 1st on S. face. raised a mound of stone 2 ft. base 2 ft. high S. of cor. Pits impracticable.
41.00	Trachyte Cliffs 7.5 ft. high. bears N. 30° S.
- 80.00	Set a trachyte stone 18 x 7 x 6 ins. 12 ins. in the ground for the closing cor. of secs. 1 ^{and} 2. marked C.C. on the S. 5 grooves on the W. and 1 groove on the E. faces. raised a mound of stone 2 ft. base 1 1/2 ft. high. S. of cor. Pits impracticable. Land, mountainous.

North boundary of T. 23 S., R. 12 P. completed

Chains	Soil, clay, stony.	4 th rate.
	Pine, cedar ^{and} pine.	
	Mountainous land ^{and} dense Undergrowth	80.00
	August 22 nd At this cor. we set off 11° 30' N. on decl. arc; and at 12 p.m. p.m. C. m. t., observe the sun on the meridian; the resulting lat. is 38° 5' N	
17.50	Leave Cedar and pine	
21.66	Ragged road to Salina bears N. ^W . S.	
28.60	Cold Creek, 15 lbs. wide, pure water flows N. W. 800 ft. below top of Mount	
29.40	Enters Cedar ^{and} pine. ascend. over broken hills.	
40.00	Set a trachyte stone 14 x 12 x 6 ins. 10 ins. in the ground for 1/4 Sec. cor. sec. 1, marks 1/4 on S. face, raised a mound of stone. 2 ft. base, 7 ft. high. S. of cor.	
- 43.38	Intersect a grough S. 0° 16' E. 2.8.6.2 This from the re-established cor. of T. 22 ^{and} 23 S. R 12 ^{and} 13 P. From which we obliterate all marks pertaining to R 12 P and at the point of intersection	
	Set a trachyte stone 18 x 8 x 8 ins. 12 ins. in the ground for the Closing cor. of T. 22 ^{and} 23 S. R. 12 P. marked C.C. W 22.8 on N 23 S on S faces with 6 grooves on N. S. and sides and raised a mound of stone 2 ft. wide, 2 ft. high. W. of cor. It is impracticable bank, mountainous.	
	Soil, stone, clay.	4 th rate.
	Pine, cedar ^{and} pine.	
	Mountainous land.	73.38 chs.
		August 22 nd

9.23 S., R. 1. 2d.

Dot retacement of exterior boundaries
of this T.P. see subdivisions.

Latitude, departure & closing errors.

Line designated.	True bearing	Distance	Latitude N. S.	Departure E. W.	Closing error
1 P.M. 9.23 S. R. 1. 2d.	S 89° 22'	47822	-	78.22	
W.	N.	80.40	80.40		
" "	N 0° 33' N.	39.83	39.83	.38	
" "	N 0° 42' N.	41.04	41.04	.16	
" "	N 2° 09' N.	40.92	40.89	.154	
" "	N 0° 46' N.	40.78	40.78	.47	
" "	N 0° 32' N.	163.40	163.89	.53	
" "	N 0° 36' N.	80.55	80.55	.117	
N.	E	477.44		171.44	
E.	S 0° 46' E.	10.56		10.56 .05	
" "	S 0° 32' E.	39.18		39.18 .37	
" "	S 1° 07' E.	118.18		118.18 230.	
" "	S 0° 31' E.	118.25		118.25 123.	
" "	S 0° 59' E.	156.63		156.60 26.7	
" "	South	44.74		44.24 -.58	
Convergencies	stat.		49.738 49.701 49.464 49.347		
			487.01		83.47
First line lat. & departure.			.37		1.17

Dot General description see
Subdivision of 9.23 S. R. 1. 2d.

Hubert D. Parker
George D. Ham
Asst. Deputy Surveyor D.O.

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Final Oaths of Deputy Surveyors and their Assistants.

LIST OF NAMES.

A list of the names of the individuals employed by
....., United States Deputy Surveyor, to assist in running, measuring, and
marking the lines and corners described in the foregoing field notes of the survey of

showing the respective capacities in which they acted:

....., Chainman.

....., Chainman.

....., Moundman.

....., Moundman.

....., Axman.

....., Axman.

....., Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted

....., United States Deputy Surveyor, in surveying all
those parts or portions of the

..... of the base
and meridian, of, which are represented
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
corner monuments established, according to the instructions furnished by the United States Surveyor
General for

....., Chainman.

....., Chainman.

....., Moundman.

....., Moundman.

....., Axman.

....., Axman.

....., Flagman.

Subscribed and sworn to before me this

day of, 189



Final Oath of United States Deputy Surveyor.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of instructions received from _____, bearing date of _____, United States Surveyor General for _____, bearing date of _____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____

and _____ meridian, in the _____ of _____, which are represented in the foregoing field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the true field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor

Subscribed by said _____, United States Deputy Surveyor, }
and sworn to before me this _____ day of _____, 189_____. }



APPROVAL.

Office of the United States Surveyor General,

Salt Lake City, Utah, May 26th, 189_____.
The North Boundary of the

23d North Range, West of the Salt Lake East meridian, Utah.

executed
under his Contract No. 209, dated December 1st, 189_____, having
critically examined, the necessary corrections and explanations made, the said field notes, and the surveys
they describe, are hereby approved.

Jacob J. B. L.

United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General

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BOOK A-250

N.O.B.

FIELD NOTES

OF THE SURVEY OF

The

Subdivision of
 Township No. 22 South.
 Range No. 1 West.

Of the Salt Lake Base and Meridian,

In the state of Utah.

AS SURVEYED BY

Hubert D. Page & George C. Swan, United States Deputy Surveyors

Under their Contract No. 709, dated December 26, 1896.

Survey commenced September 1st, 1897.Survey completed September 18th, 1897.

(1319-2,500.)

Sects -	high	10-15-87 ✓	/ ✓
"	low	1-54-90 ✓	/ ✓
"	climbing	16-18 ✓	/ ✓

South Boundary -	high	5-31-44 ✓	/ ✓
"	low	46-00 ✓	/ ✓

Recurrence from previous Sects. high	7-30-74 ✓	
" " " E. Boundary	3-09-24 ✓	
" " " W. "	2-04-80 ✓	
Contour over 17. Bldg -	1-01-20 ✓	

Names and Duties of Assistants.

James M. Lentz. chairman
James Holdaway chairman
Douglas A. Swan Jr. chairman
Owen A. Snoots Jr. chairman
James M. Lentz. Groundman
James Holdaway. Groundman
Donald Jackson Wilson Franklin L. Franklin ^{O'Brien} Magazines
For preliminary affidavits see book B

Volume

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Meanders Page.....

Preliminary Oaths of Resistant.

We, and do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins either by striking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of

, Chairman.

, Chairman.

Subscribed and sworn to before me this

day of , 189 . }



We, and do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

, Moundman.

, Moundman.

Subscribed and sworn to before me this

day of , 189 . }



We, and do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

, Axman.

, Axman.

Subscribed and sworn to before me this

day of , 189 . }



I, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability in the survey of

, Flagman.

Subscribed and sworn to before me this

day of , 189 . }



Petracement of E. and W. bdy. and subdivision of R. 22d, T. 1 N.

Survey commenced Sept 1st 1897.
and executed with the instrument
described in book "B" page 1 of contract
No. 209.

Prev. to test the solar apparatus by
comparing its indications, resulting
from solar observations made during
a. m. and p. m. hours, with a true
meridian determined by observations
on Polaris. It has proceed but follows: At
the closing corner of Rps. 22 and 23 S. R. 1 N.,
Lat. $38^{\circ} 51' 1''$, Long. $111^{\circ} 54' 11''$ W., the set
off $38^{\circ} 51'$ W. on the lat. and $7^{\circ} 56' 30''$ N. on
the dec. and at 5 hrs. 02 m. p. m.
P. M. L. determined with the solar or
true meridian and mark a point
thereof with a stake driven in at
stake set forth in the ground S. of
N. of the station.

At 8 hrs. 40 m. p. m. C. M. H. set
observed Polaris at each of elongations,
in accordance with Manual of
Instruction and mark a point in
this series. Then determined our sat
point derived in the ground S. of
N. of our station.

Sept 1st 1897,

Sept. 2, 1897

At 6 hrs. 30 m. a. m. C. M. H. set off
off the azimuths of Polaris $1^{\circ} 25' 40''$ west.
The true meridian line, determined
further on the mark determined
by p. m. solar observations September
1st.

At 7 a. m. C. M. H. set off $38^{\circ} 51'$ on
the lat. and $7^{\circ} 43' 30''$ N. on the dec.
and determined a true meridian
with the solar which falls on the
mark set on the true meridian estab-
lished by Polaris observations.

Retracement of E. end N. body and subdivisions of 9226

The polar apparatus by p.m. and a few observations defined position of the true meridian established by Polaris observations. Therefore we conclude the adjustments of the instrument are satisfactory.

Owing to local attractions can get no satisfactory magnetic reading.

Having discovered through previous survey of the N. body of Pp. 23 S. R. 1 W. an error in the measurement of the east and west lines of this township N. and S. which is beyond the allowable limits prescribed by the Manual of Instructions. Therefore,

Preliminary to commencing the subdivisions of this township we run N. $0^{\circ} 16' W.$ on a blank line on the E. body of sec. 36; at 28.62 plus. We find the cor. of Pps. 22, and 23. S. R. 1 W. We continue our line $N. 0^{\circ} 16' W.$ and at 39.18 plus. We find the 14 sec. cor.

Having run N. at 40.00 plus, after diligent search find no trace of sec. cor. We continued our line N. and at 130.25 plus we find 14 cor. west go. like. dist.

Having run N. searching diligently at proper distances for corners, at 66.43 plus. no trace of sec. cor. can be found. We set a temp. sec. cor. Having run N. at 80.00 plus, we find the cor. of sec. 13. 14. 23. and 24. S. $6^{\circ} 15' W.$ 16.34 plus. dist.

Having run N. running diligently at proper distances for corners, at 160.00 plus. set a temp. sec. cor.

Having run S. at 80.00 plus, after diligent search find no sec. cor. set at

Resurvey of the N. bdy. 9.22 S., R. 17^{1/2}

temp sec. cor. Thence we run N.
searching diligently at proper distances
for corners, at 1/59. obs. we find the cor.
of secs. 19, 20, 29, and 30. S. 3.16 obs. dist.,
which is a trachyte stone 4x10x6 in.,
above the ground marked and witnessed
as described by the Surveyor General.
Thence we run N. and at 78.94 obs.
intersect N. bdy. of Tps. 20 and N. of the cor.
of secs. 19 and 30. Thence we run
S. on a blank line on the N. bdy.
of sec. 31; at 40.00 and 80.00 obs. after
diligent search find no trace of 1/4 sec.
or sec. cor. We continue our line
S. and at 2 miles 4.28 obs. intersect
E. end N. line 1.50 obs. N. of the cor.
of Tps. 22 and 23 S. R. 1 and 2 N.

Sept. 5, 1897.

At 7 a.m. l. m.t. We set off $38^{\circ} 51'$ Now
the lat. are. $6^{\circ} 37'$ N. on the old arc; and
determine a true meridian with the
polar at the cor. of Tps. 22 and 23 S. R. 1
and 2 N. Our random line bet. R. 1 and
2 N. developed error in alignment
and the old corners are obliterated.
Therefore, as the Tp. N. has been sub-
divided and in accordance with
the Manual page 73 we establish
corners on the range line as follows:
We calculate our return course and
allowing proportionate measurements
we run

N. $0^{\circ} 31'$ W. bet. secs. 31 and 36.

along level land. soil clay.

2.00 Left bank of Sevier river course N. N.

4.00 Right bank " " " " "

41.07 Set a Sandstone 16x9x9 in., 12 in. in
the ground for 1/4 sec. cor. marked 1/4 on
N. face and raise it around.

Resurvey of the N. bdy of T. 22 S., R. 1 W. Concord.

chain	stone 2 ft. base 1 1/2 ft. high N. of cor. Pit impracticable.
49.14	Left bank of Sevier river course N.E.
51.14	Right-bank " " " " N.E.
64.14	Old river bed, course N.E.
70.00	Left-bank of Sevier river course N.W.
71.50	Right-bank " " " " N.W.
82.15	Set a cedar post 3 ft. long 4 in. sq. 24 in. in the ground for cor. of sec. 25: 30, 31 & 36 marked T22S., S25 on N.E., R1W., S36 on S.E., S35 on S.W., 48 S. 26 on N.W. faces, with 1 notch on S. sec. 5 Holzhausen Ridge, dig post 18x18x12 in. in each sec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high N. of cor. Land. level.
	Soil clay. No timber.
	N. 0° 31' W. bet. sec. 25 and 30. Land level. clay soil.
5.89	Left-bank of Sevier river course N.E.
8.64	Right-bank " " " " N.E.
41.07 1/2	Set a Limestone stone 18x10x8 in., 12 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raised a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pit impracticable The cor. of secs. 19, 24, 25, 30.
82.15	Land. level.
	Soil clay. No timber.
	At this cor. we set off 6° 31' N on the decl arc, and at 11 in., 8 m. E. n. t. observe the sun on the meridian the resulting lat. is 38° 53'

As the northern portion of this sp. has been subdivided and the corners obliterated. In accordance with the Manual Page 73, we calculate our return course and allowing proportionate measurements reestablish the corners in their original places as follows.
Hence the run.

Resurvey or subdivisions of T. 22 S., R. 12 W.

chains.	N. 89° 25' E. bet. secs. 19 th and 30. Over nearly level land, dense undergrowth. Left bank of Sevier river, flows N. Right bank of Sevier river. Wagon road, to Sigurd from Main County road bears N. th S. Begin steep ascent over rolling hills along the S. slope of ridge. Set a trachyte stone 15x9x6 ins. 10 ins. in the ground for 1/4 sec. cot. marked 1/4 on N. face, raised a mound of stone 2 ft. base, 2 ft. high N. of cot. Pits impracticable. Bottom of trachyte cliffs, 75 ft. high, bear N. th S. Top of same cliffs. The cot. of secs. 19, 20, 29 th and 30. Land, level th mountainous. Soil clay th gravelly, 1 st th ^{3rd} rate. no timber. Mountainous land th dense undergrowth 78.94 Chs.
	September 15 th 1897

0.80	September 6 th 1897, at 7 A.M. L. m.t., we set off 38° 53' N on lat. and 6° 15' 37" on dell. acc; and determine a true meridian with the solat. at the cot. of secs. 19, 20, 29 th and 30. Thence we run, N. 89° 26' E. bet. secs. 20 th and 29. Over stony soil through dense sage brush. descend projecting ledge (trachyte) 15x30 ft.
17.00	Bottom of ravine 300 ft. deep. course S. Spur projects S.
34.00	Set a trachyte stone 15x6x8 ins. 10 ins in the ground for 1/4 sec. cot. marked 1/4 on N. face, raised a mound of stone 2 ft. base- 1 1/4 ft high N. of cot. Pits impracticable.
39.87 1/2	Scattering cedar Bottom of ravine 100 ft. deep course S.
40.50	Leave cedar
42.75	Bottom of ravine 100 ft. deep course S.
44.00	Leave cedar
53.60	Top of ridge, bears N. E. th S. th W. descend through scattering cedar. enter gypsum hills, very broken.
- 79.75	Set a trachyte stone 17x10x8 ins. 12 ins. in the ground for cot. to secs. 20, 21, 28 th and 29. marked with 4 notches on the E. th and 2 notches on S. edges, raised a mound of stone 2 ft. base 1 1/4 ft. high. N.

Resurvey of subdivision of 9th L. R. N. E.

chains.	1000. Pits impracticable Land, mountainous Soil, clay ^{and} stony 3rd ^{and} 4 th rate No timber Mountainous land, 79.75 chs.
37.00	No. 89° 26' E. bet. secs. 21 ^{and} 28. Descending over stony soil, and gypsum hills. very broken. scrubby cedar Wagon road to Squaw, known as the Twist. bears S. W. ^{and} N. E.
39.88	Set a trachyte stone 16 x 10 x 8 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on n. face, raised a mound of stone 2 ft. base, 1 1/2 ft. high N. of cor. Pits impracticable.
53.00	Top of ridge bears N. E. ^{and} S. W.
68.00	Bottom of ravine 100 ft. deep. course N.E. Ascend.
79.76	Set a trachyte stone 14 x 9 x 9 ins. 10 ins. in the ground for cor. of secs. 21, 22, 27 and 28. marked with 3 notches on E. and 2 notches on S. edges. raised a mound of stone 7 ft. base, 1 1/2 ft. high N. of cor. Pits impracticable Land, mountainous Soil, stony clay ^{and} gypsum hills scrubby cedar. Mountainous land, 79.76 chs.
20.00	North bet. secs. 21 ^{and} 27. Descending over broken clay ^{and} gypsum hills. Bottom of ravine 75 ft. deep. course N. E. ascending.
4000	Set a trachyte stone 14 x 9 x 7 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on S. face, raised a mound of stone 2 ft. base, 1 1/2 ft. high N. of cor. Pits impracticable.

Hours		
80.00	Set a Brachyte stone 18x9x9 in., 12 in. in the ground for cor. of secs. 15, 16, 21 and 22, marked 22 S. on N. & E. edges 1 H. on S.E. faces, with 3 notches on S. and E. edges, and raise a mound of stone 2 ft. base 1/2 ft. high N. of cor. Site impracticable. Land mountainous. Soil, stony and clay. No timber.	
	Mountainous land	80.00 chs.
	Note: Cloud obscured sun. could take no observation for lat. this day.	
	Sept. 6 th 1897	
	Sept. 7, 1897. At 7 a.m. l.m.t. We reck of $38^{\circ} 53' 30''$ on the lat. arc, $5^{\circ} 52'$ N. on the decl. arc, and determine a true meridian with the solar at the cor. of secs. 15, 16, 21 and 22. Hence, true sun $N. 89^{\circ} 26' E.$, bet. secs. 15 and 22. Descending over Gypsum hills	
21.00	Bottom of ravine 100 ft. deep, course, N.E. Ascending	
31.00	Top of ridge, bears N.E. & S.W. Descending, 39.87 1/2 set a Brachyte stone 18x10x7 in., 12 in. in the ground for 14 sec cor. marked 4 on N. face, and raise a mound of stone 2 ft. base 1/2 ft. high N. of cor. Site impracticable	
41.00	Bottom of ravine 75 ft. deep. bears N.E. Ascending. over Gypsum hills	
79.75	Set a Brachyte stone 17x9x9 in., 12 in. in the ground for cor. of secs. 14, 15, 22 and 23, marked with 3 notches on S. and 2 notches on E. edge and raise a mound of stone 2 ft. base 1/2 ft. high N. of cor. Site im- practicable Land mountainous Soil, clay and gravel. No timber	
	Mountainous land	79.75 chs

Recd. of subdivisions of T. 22 S., R. 1 W. Compt.

Points.	N. 89° 26' E. betw secos. 14 and 25. Descending over gypsum hills Bottom of ravine 60 ft. deep. course N. W. Ascending broken gypsum hills
29.00	Bottom of ravine 40 ft. deep. course N. W. Ascending broken gypsum hills
39.88	Set a trachyte stone 14 x 10 x 10 in., 10 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pit impracticable
40.00	Pit of ridge. bears N. E. Descending
52.00	Bottom of ravine 40 ft. deep course S. E. Ascending
60.00	Pit of ridge. bears N. W. and S. E. descend
79.76	The cor. of secos. 13, 14, 23 and 24, which is a trachyte stone 4 x 8 x 7 in. above the ground marked and witness- nessed as described by the Surveyor General.

Land mountainous

Soil clay and stony:

No timber

Mountainous land

79.76 eols.

At this cor. we set off 5° 46' N on
the decl. arc; and at 11 hrs 58 m. l. m.t.
observe the sun on the meridian the re-
sulting lat is. 38° 53' 30" N

	East, betw secos. 13 and 24.
	Descending.
16.50	Foot of slope. along level
19.00	Wagon road bears N. and S.
22.00	Loch creek 15' elev. wide. course N.
28.00	Begin ascend west slope of mountain
40.89	Set a trachyte stone 14 x 10 x 9 in., 10 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pit impracticable. Ascending west slope of mountain

Recd of the E. of 9.22 S., R. 1 W.

Obsrvns.

8178

Entered E. bdy. of Pp. where we find a mound of stone partly fallen down, search diligently find no trace of marked stone. We reestablish cor. as follows:- Set a trachyte stone $15 \times 10 \times 8$ in., 10 in. in the ground for cor. of secs. 13^{and} 24. E. bdy. Pp. 22 S. R. 1 W.

Marked with 3 matches on the N. and S. edges. and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. Pit impracticable. Land mountainous.

Sail slowly.

No wind.

Mountainous land

81.78 obs.

Sept. 7th 1897.

Sep. 8: 1897. Salt Lake Meridian

At 7 hrs 30 m. a.m. l. m.t. we took off $38^{\circ}53'30''$ on the lat. arc. $5^{\circ}29'$ N. on the dec^d arc. and determined a true meridian with the solar at the pos. of secs. 13^{and} 24. E. bdy. Pp. 22 S. R. 1 W. We calculate our return course and re-establish the range line as follows:- thence the run

S. along E. bdy. of sec. 24,
Descending over broken gypsum hills.
Difference betw. measurements of $31.70\frac{1}{2}$ & $31.70\frac{1}{4}$ hs.
by two sets of chainmen in 4 hrs. position
of middle point.

By 1st set $31.68\frac{1}{2}$ obs.

By 2nd set $31.72\frac{1}{2}$ obs.; the mean of
which is

$31.70\frac{1}{2}$ Set a trachyte stone $16 \times 10 \times 9$ in., 7 in.
in the ground for $\frac{1}{4}$ sec. cor. W. bdy. sec.
19 P. 22 S. R. 1 E. marked $\frac{1}{4}$ on E. face
and raise a mound of stone 2 ft. base
 $1\frac{1}{2}$ ft. high. E. of cor. Pit impracticable.

34.00 Dry wash course W.

42.00 Bottom of ravine 150 ft. deep. course. N. W.

Survey of the C. body of T. 22 S., R. 1 W.; Continue
Sail 2 mi. N. E.

	ascending leave gypsum hills
48.24	Measurement by two sets of chainmen Set a Trachyte stone 18 x 12 x 9 ins., 12 ins. in the ground for cor. C. body. sec. 24. Tp. 22 S. R. 1 W. marked 1/4 on N. face and raise a mound of stone 2 ft base 1 1/2 ft. high W. of cor. Site impracticable
50.19	N. C. previously mentioned Hence we run $S. 0^{\circ} 24' E.$
	Measurement by two sets of chainmen
63.41	Set a Trachyte stone 15 x 9 x 8 ins., 10 ins. in the ground for cor. of secs 19 and 30 W. body. of Tp. 22 S. R. 1 W. marked with 4 notches on the N. and 2 notches on the S. edges, and raise a mound of stone 2 ft. base 1 1/2 ft. high E. of cor. Site impracticable
77.00	Top of ridge bears N.W. & S.E. Descending, difference bet. measurements of 88.24 obs., by two sets of chainmen is 5 ins.; position of middle point By 1 st set 88.21 1/2 obs. By 2 nd set 88.26 1/2 obs. the mean of which is
88.24	Set a Trachyte stone 19 x 10 x 6 ins., 13 ins. in the ground for cor. of secs. 24 and 20 C. body. Tp. 22 S. R. 1 W. marked with 4 notches on N. and 2 notches on the S. edges and raised a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Site impracticable Land mountainous Sail stony; No timber, Mountainous land
	88.24 obs.
	$S. 0^{\circ} 24' E.$ along C. body. sec. 25 Descending over stony soil Difference bet. measurements of 14.18 obs.

Resu. - of the E. of T. 22 S., R. 1 W. Continued.
Salt Lake M. & L. Co.

Chains.	by two sets of chainmen is 4 chs.; Position of middle point By 1 st set 14.16 obs. By 2 nd set 14.20 obs; the mean of which is
14.18	Set a trachyte stone 14 x 11 x 9 ins., 10 ins in the ground for 1/4 sec. cor. N. body. sec. 30 Tp. 22 S. R. 1 W. marked 1/4 on E. face and raise a mound of stone 2 ft. base 1 1/2 ft. high E. of cor. Pits impracticable.
14.70	Head of ravine 60 ft deep course N. N. descending under scattering cedar. Top of mountain bears S. E. and N. E. Along top of mountain descending gradually, soil stony.
33.00	Difference bet. measurements of 40.00 obs., by two sets of chainmen is 6 chs.; Position of middle point By 1 st set 39.97 obs. By 2 nd set 40.03 obs; the mean of which is
40.00	Set a trachyte stone 16 x 9 x 9 ins., 12 ins. in the ground for 1/4 sec. cor. N. body, of sec. 26 Tp. 22 S. R. 1 W. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable. Difference bet. measurements of 53.19 obs., by two sets of chainmen is 6 chs.; Position of middle point By 1 st set 53.16 obs. By 2 nd set 53.22 obs; the mean of which is
53.19	Set a trachyte stone 17 x 9 x 8 ins., 2 ins. in the ground for cor. of secs. 30 and 31 N. body, Tp. 22 S. R. 1 W. marked with 5 notches on the N. and 1 notch on the S. edges, and raise a mound of stone 2 ft. base 1 1/2 ft. high E. of cor. Pits

Resurvey of the E. bdy. of T. 22 S., R. 1 W. Continue
S. Salt Lake Meridian

	impracticable
56.30	Ledges and cliffs bear S. 4° and N. E. Begin rapid descent
60.00	Pack of ledges and cliffs Descending over loose trachyte stones Difference bet. measurements of 80.00 ft. by two sets of chainmen is 10 ft.; position of middle point By 1 st set 79.95 chain.
	By 2 nd set 80.05 chain; the mean of which is
80.00	Set a trachyte stone 22 x 11 x 9 ins., 16 ins. in the ground for cor. of sec. 25 and 36. E. bdy. of Tp. 22 S. R. 1 W. marked with 3 notches on the N. and 1 notch on the S. edges. and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pit impracticable. Land mountainous Soil stony.
	Timber, scattering cedar
	Mountainous land
	Sept. 8:
	At this cor. we set off 5° 23' 20" N. on the decl. arc; and at 11 hrs. 57 m. l.m.t. observe the sun on the meridian the resulting lat is 38° 52' N.
1.50	80° 24' 10", along E. bdy. sec 36, Descending Bottom of ravine 75 ft. deep coarse S.G. Scattering cedar
	Ascending Measurements by two sets of chain men
12.20	The 1/4 sec cor of sec 31 N bdy of Tp. 22 S. R. 1 E. Hence return

Res of the E. body of T. 22 S., R. 1 W. Concluded.

Chains. 16.50	S. 0° 16' E. along E. body of sec. 36, Top of ridge bears S. 71° and N. 16°, Descending
29.10	Branch 2 lks. wide course N. Along level. Soil gravelly. Leave cedar.
	Difference betw. measurements of 40.00 obs., by two sets of chainmen is 4 lks.; position of middle point
	By 1st set 29.98 obs. By 2nd set 40.02 obs.; the mean of which is
40.00	Set a Brachyte stone 14 x 7 x 7 ins., 10 ins. in the ground for 1/4 sec. cor. E. body. of sec. 36 T. 22 S. R. 1 W. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pit impracticable Hagon road bears N. and E.
43.00	Difference betw. measurements of 51.38 obs.; by two sets of chainmen it is 2 lks.; position of middle point
	By 1st set 51.36 obs. By 2nd set 51.40 obs.; the mean of which is
51.38	The cor. of obs. 22 and 23 S. R. 1 E. Begin gradual accn. soil stony. Difference betw. measurements of 8.00 chains. by two sets of chainmen is 6 lks.; position of middle point
	By 1st set 79.97 obs. By 2nd set 80.03 obs.; the mean of which is
80.00	The closing cor. of Obs. 22 and 23 S. R. 1 W. Land mountainous Soil stony Rubber cedars scattering Mountainous land 80.00 obs.

Sept. 8th 1897

South of T. 22 S., R. 1 W.

Oranis Sept. 9, 1897.

at 7 a.m. l.m.t. We set off
 $38^{\circ} 57' N$ on the lat. arc. $5^{\circ} 7' E$, N on
 the decl. arc. and determine on
 true meridian with the solar
 at the closing cor. of Tps. 22 and 23 S. R. 1 W.
 Thence we run

N. along S. bdy. sec. 36.

Descending over broken clay
 hills.

33.38 The 1/4 sec. cor. of sec 1 N. bdy. Tp. 23 S. R.
 1 W.

40.00 Set a Brachyle stone $13 \times 11 \times 10$ ins.,
 9 lbs. in the ground for 1/4 sec.
 cor. S. bdy. sec. 36 Tp. 22 S. R. 1 W.,
 marked 1/4 on N face and raise
 a mound of stone 2 ft. base $1\frac{1}{2}$
 ft. high N of cor. Pit impracticable.

Leave cedar and pine.

214.78 Look creek 15 lbs. wide bears N.
 800 ft below top of mountain begin ascend

54.72 Wagon road bear N. of S. to Seward.

55.88 Cedar, cedar, and pine scattering.

73.38 The closing cor. of sec 1 and 2 N. bdy. T. 23 S., R. 1 W.

60.00 Set a Brachyle stone $18 \times 12 \times 9$ ins.,
 12 lbs. in the ground for cor. of
 secs. 35 and 36 S. bdy. Tp. 22 S.
 R. 1 W. marked with 6 notches
 on the N. and 1 notch on the E.
 edges, and raise a mound of
 stone 2 ft. base $1\frac{1}{2}$ ft. high N. of
 cor. Pit impracticable.

Land mountainous

Soil, clay, loam and stony; 2nd 3rd
 and 4th rate.

Timber, scattering cedar

Mountainous land 80,000 chs.

South body of T. 22 S., R. 1 W. Continued.

Points.	W. along S. body of sec. 35 Ascending over stony soil, through dense undergrowth and scattering cedars
32.38	Cliff brachyte bears N. 45° E. the 1/4 sec. cor. of sec. 2 N. body. Pp. 23 S. R. 1 W.
40.00	Set a brachyte stone 15 x 10 x 9 in., 10 ins. in the ground for 1st sec. cor. S. body. sec. 35. Pp. 22 S. R. 1 W. marked 1/4 on N. face and raised a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.
64.38	Top of mountain bears N. 25° E. & 18.25° N. Descending along N. slope
73.38	The closing cor. of secs. 2 and 3 N. body. Pp. 23 S. R. 1 W.
78.08	Bottom of ravine 60 ft. deep. bears N. . . . Ascending
80.00	Set a brachyte stone 24 x 10 x 10 in., 18 ins. in the ground for cor. of secs. 34 and 35 S. body. Pp. 22 S. R. 1 W. marked with 4 notches on N. and 2 notches on the E. edges; and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable. Land mountainous. Soil stony. 4th rate. Timber, Cedars scattering mountainous land 80.00. Oct. 1 Sept. 9.
	At this cor. we set off 500' N. on the decl. arc: and at 11 hrs. 54 m. l.m.t. observe the sun on the meridian the resulting lat is $38^{\circ} 51'$ N.

South body of T. 22 S., R. 1 W. Co.

Starting	W. along S. body of sec. 34
	Ascendence over stony soil through scattering cedar.
7.3.8	Top of ridge bears N.E. and SW. Descending
1.7.98	Cliffs. Brachyte bears N.E. and SW.
2.3.38	Leave Cedars.
3.3.38	The 1/4 sec. cor. of sec. 3 N. body of T.p. 22 S. R. 1 W.
3.6.38	Pool of mountain water page brush flat bears N.E. and SW.
4.0.00	Set a brachyte stone 16 x 9 x 7 ins., 11 ins. in the ground for 1/4 sec. cor. S. body. sec. 34. T.p. 22 S. R. 1 W. marked 1/4 on N. face and raise a mound of stone 2 ft. high base 1 1/2 ft. high N. of cor. Site impracticable.
	Along level
5.1.13	Road to Post creek valley from Devil's Valley bears N.E. and SW.
7.2.88	Leave page flat.
	Began ascend over broken gypsum hills.
7.3.38	The closing cor. of secs. 3 and 4 N. body. T.p. 22 S. R. 1 W.
8.0.00	Set a brachyte stone 19 x 7 x 5 ins., 13 ins. in the ground for cor. of secs. 33 and 34. S. body. of T.p. 22 S. R. 1 W. marked with 8 notches on W. and 3 notches on the E. edges, and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor.
	Site impracticable.
	Land mountainous.
	Soil stony and clay, 3rd and 4th rate.
	Timber cedars scattering
	Mountainous land 34.00 ac.

September 9, 1897.

South bdy. of T. 22 S., R. 1 W. - Continued.

Chas Sept. 10, 1897.

At 7 a. m. l. m. t. He set off $38^{\circ} 5'$ N. on the lat. arc; $40^{\circ} 44' 30''$ N. on the decl. arc; and determined a true meridian with the solar alt. cor. of sec. 33 and 34 S. bdy. of T. 22 S., R. 1 W.

Hence the run

N. along S. bdy. of sec. 33.

Ascend through scattering cedar.

11.42 Top of ridge bears N. W. and E. Descend.
Bottom of ravine 100 ft. deep.
course $N. 65^{\circ} W.$

Ascend over broken gypsum hills

33.38 The 1/4 sec. cor. of sec. 4 S. bdy. of T. 23 S.
R. 1 W.

40.00 Set a trachyte stone 17x9x8 in., 11 in.
in the ground for 1/4 sec. cor. sec. 33 S.
bdy. T. 22 S., R. 1 W. marked 1/4 on N. face
and raise a mound of stones 2 ft. base
 $1\frac{1}{2}$ ft. high N. of cor. It is impracticable.
46.72 Top of ridge bears E. and N. E. Descend
53.82 Bottom of ravine 350 ft. deep.
course S. E.

Ascending along ridge bears E. and N.

77.72 The cor. of secs. 4 and 5 N. bdy. of T.
23 S., R. 1 W. as re-established by me.

80.00 Set a trachyte stone 18x10x8 in., 12 in.
in the ground for cor. of secs. 32 and
33 S. bdy. of T. 22 S., R. 1 W. marked
west 20 matched on N. and 14 matched
on the E. edges, and raise a mound
of stones 2 ft. base $1\frac{1}{2}$ ft. high N. of cor.
It is impracticable.

Land mountainous.

Soil stony, 1/4 li. rate.

Timber cedar scattering.

Mountainous land. 80.00 lbs.

N. along S. bdy. of sec. 32.

Ascending through scattering cedar
Top of ridge, bears E. and N. E.

2.50

Southeastly of T. 22 S., R. 1 W. Continued.

- | | |
|---------|--|
| chains. | Descend over broken gypsum hill. |
| 35.70 | Bottoms of ravines 75 ft deep.
course S.W. Ascend. |
| | In our retracement of the N. bdy. of T. 23 S., R. 1 W. after diligent search no trace of old $\frac{1}{4}$ cor. could be found. We allow proportionate measurements and re-establish $\frac{1}{4}$ sec. cor. for sec. 5 - N. bdy. T. 23 S., R. 1 W. as follows: |
| 38.08 | Set a trachyte stone 14 x 12 x 9 ins., 10 ins. in. the ground for $\frac{1}{4}$ sec. cor. of sec. 5 - N. bdy. of T. 23 S., R. 1 W. marked $\frac{1}{4}$ on S. face and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. Pts impracticable. |
| 40.00 | Set a cedar post 3 ft. long 3 ins. sq., 24 ins. in. the ground for $\frac{1}{4}$ sec. cor. of sec. 32 S. bdy. of T. 22 S., R. 1 W. marked $\frac{1}{4}$ S. on N. face and raise a mound of earth and shale rock 3 ft. base $1\frac{1}{2}$ ft. high N. of cor. Pts impracticable. |
| 78.44 | The cor. of secs. 5 and 6 - N. bdy. of T. 23 S., R. 1 W. |
| | Descending. |
| 80.00 | Set a trachyte stone 14 x 10 x 10 ins., 10 ins. in. the ground for cor. of secs. 31 and 32 S. bdy. of T. 22 S., R. 1 W. marked with 5' notches on the E. and 1' notch on N. edges. and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. Pts impracticable. The obliterate marks on old cor. referring to T. 22 S., R. 1 W. |
| | Land mountainous.
Soil clay and stony: 3 rd and 4 th rates.
Timber cedar scattering. |
| | Mountainous land. At 80.00 elev. Sept. 10. |
| | At this cor. we set off $4^{\circ}38' N.$
on the decl. arc. and at 11 hrs. 57 m. P.M.
observed the sun on the meridian.
The resulting lat is $38^{\circ}57' N.$ |

South bdy. of T. 22 S., R. 1 W.

- Chains W. along the S. bdy. of sec. 31.
Over rolling land, soil stony.
16.44 Wood road bears N. and S.
Begin steep ascent
33.40 Top of high ridge bears N. and S.
Descending.
35.00 In our retracement of the N. bdy. of
T. 23 S., R. 1 W., after diligent search
no trace of old $\frac{1}{4}$ cor. could be found,
placing the fractional distance in
the western half mile. We reestablish
 $\frac{1}{4}$ sec. cor. for sec. 6 N. bdy. of T. 23 S.
R. 1 W. as follows:
38.44 Set a trachyte stone 15x10x7 ins. 10 ins.
in the ground for $\frac{1}{4}$ sec. cor. of sec. 6
N. bdy. of T. 23 S. R. 1 W. marked $\frac{1}{4}$ on
S. face and raise a mound of stone
2 ft. base $1\frac{1}{2}$ ft. high S. of cor. Post unforac-
ticable.
40.00 Set a trachyte stone 16x9x7 ins. 11 ins.
in the ground for $\frac{1}{4}$ sec. cor. of sec.
31. S. bdy. of T. 22 S. R. 1 W. marked $\frac{1}{4}$
on N. face and raise a mound of stone
2 ft. base $1\frac{1}{2}$ ft. high N. of cor. Post unforac-
ticable.
74.64 The Mtn. cor. for Pts. 22 and 23 S. R. 1
and 2 W.
74.70 Wagon road to liquid bear N. and S.
foot of mountain.
75.00 E. bank of Sevier river. bears N. 20° W.
and S. 20° E.
77.20 W. bank of Sevier river. bears N. 20° W.
and S. 20° E.
77.44 The cor. of Pts. 22 and 23 S. R. 1 and 2 W.
established by us Aug. 15th 1897.

Land mountainous.

Soil stony: 4th rate.

No timber.

Mountainous land 77.44 chds.

Sept. 10th - 1897.

Retracement of subdivision T. 2 S. R. 1 N.

Sept 10, 1897.

The exterior boundaries of this
Tp. do not close within the proper
limits; therefore we retrace as follows:

At 4 p.m. I. m.t., we set off $31^{\circ} 53' N.$
on the lat arc $4^{\circ} 35' N.$ on the old
arc, and determined a true meridian
with the solar at the cor. of secs.
19 and 20, W. bdy. of Tp. 2 S. R. 1 N.
Hence we run

N. on a true line along W. bdy. sec. 19
After diligent search no trace of old
1/4 sec. cor. can be found

The cor. of secs. 18 and 19, 80' ex. N.
The course of this line is therefore
 $N. 0^{\circ} 21' W.$

Having brought the error within
limits we discontinue further
retracement.

Sept 10, 1897.

Latitude departure^{and} closing error

Line designated	True bearing	distance	Latitude departure			
			N.	S.	E.	W.
S bdy. T. 2 S. R. 1 N.	West	477.44				477.44
" "	$N. 0^{\circ} 31' N.$	164.30	164.30			150.
" "	$N. 0^{\circ} 21' N.$	81.70	81.70			50.
" "	North	240.00	240.00			
" "	East	480.00				480.00
" "	South	290.19				290.19
" "	$S. 0^{\circ} 24' E.$	130.25		130.25		90.
" "	$S. 0^{\circ} 16' E.$	67.80		67.80		31.
Convergency						58
Totals			485.50	488.24	481.79	479.44
						485.50 479.44
Error in Lat & Def.			7.14	2.35		

Subdivision of T. 22 S., R. 1 E.

Ottawa Sept 11, 1897

At 7 a. m. I. m. I. set off
 $38^{\circ} 51' N$ on the lat. arc; $4^{\circ} 22' W$.
 on the decl. arc; and determined
 a true meridian with the solar
 at the cor. of secs. 35 and 36. on
 S. bdy. of Twp. 22 S. R. 1 E.

Hence the run

 $N. 0^{\circ} 1' W.$ betw. sec. 35 and 36.Descending over stony soil
 through scattering cedar.

20.00	Leave cedar.	
25.00	Wagon road	bears $N. 25^{\circ} 30' E.$
29.00	Wagon road	bears $N. 30^{\circ} 30' E.$
30.00	Set a Trachyte stone $16 \times 10 \times 8$ in. $1/2$ in. in the ground for the cor. cor. marked $1/4$ on W. face and raise a mound of stone 2 ft. base $1/2$ ft. high N. of cor	
	Pts impracticable.	
	Ceder dense sage brush	
34.00	Wagon road	bears $N. 25^{\circ} 30' E.$
	Leave sage brush ceder dense undergrowth, willows and birches	
37.00	Look Creek 15 ft. wide, clear water, course $N. W.$	
49.00	Began ascend over rolling hills soil stony.	
54.00	Cliffs bears $N. and S.$, wide, $40-50$ ft. along west side of mountain	
56.00	Set a Trachyte stone $18 \times 10 \times 9$ in. $1/2$ in. in the ground for cor. cor. of secs. 25, 26, 35 and 36, marked with 1 notch on the S. and E. edges and raise a mound of stone 2 ft. base $1/2$ ft. high N. of cor.	
	Pts impracticable	
	Land mountainous	
	Soil stony, 4^{th} rate.	
	Timber cedar scattering	

Subdivision of T22 N. R. 1 W. Continued

Planis.	Mountainous land	8000, acs.
	Sept. 11, 1893.	

At this cor. off set off $4^{\circ} 15' N$ on
the decl. arc; and at 11 hrs. 56 m.
l.m.s.t., observe the sun on the
meridian the resulting lat is
 $38^{\circ} 52' N.$

	C. on a random line bet. secs 25 and 36.	
40.00	Set a Temp. 1/4 sec. cor.	
79.56	Intercept C. bdy. of Pp. at the cor. of secs 25 and 36. Hence the sun W. on a true line bet. secs 25 and 36.	
	Ascending along S. slope of mountain over stony soil.	
39.56	Set a trachyte stone 18 x 9 x 7 in., 12 lbs. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.	
51.00	Poof of cliffs bears N.E. and S.W.	
55.00	Poof of cliffs bears N.E. and S.W.	
70.00	Poof of mountain bears N.E. and S.W. described.	
72.00	Cliffs 70 ft. high bears N. and S.	
79.56	The cor. of secs 25, 26, 35, and 36.	

Land mountainous
Soil stony, 44 th. part.
No timber.
Mountainous land 79.56 acs.

N. & W. bet. secs. 25 and 26.
Along N. slope of mountain
soil stony,
Descending,

Subdivision of T. 22 S., R. 1 W. Continued.

Planis	
40.00	Set a trachyte stone 20 x 12 x 10 ins., 15 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.
59.00	Foot of mountain.
	Cedar Lash creek bottom.
71.40	Lash creek 15' ds. wide course N.E. clay soil.
73.24	A. Bleeds residence "Log House"
74.20	Brush fence bears E. and W.
79.00	Wagon road to Segur bears N.E. and S.W.
80.00	Set a trachyte stone 20 x 10 x 9 ins., 15 ins. in the ground for cor. of sec. 23, 24, 25, and 26 marked with 2 notches on S. end, 1 notch on the E. edge, and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable Land mountainous Soil clay and stony; 2nd and 4th rate. No timber Mountainous land 8000 ft. s. e. s.

Sept. 11, 1897.

At 7 a.m. l.m.t. We set off 38° 53' Now the lat. arc: 3° 59' N. on the decl. arc: and determine a true meridian with the solar at the cor. of secs 23, 24, 25 and 26.

Thence we run

80.00	Set a temp. 1/4 sec. cor.
79.00	Intersect E. bdy. of No. 3 cks. N. of the cor. of secs. 24 and 25.
	Thence we run N. 89° 59' W. on a true line bet. secs. 24 and 25.

Subdivision of 3.22 S., R. 1 W. - Cont.

Plans Descending over stony soil through scattered cedar	
28.00 Bottom of ravine 200 ft. deep, course N. W. descending	
29.00 Set a Drachyte stone 20 x 8 x 6 in., 15 in. into the ground for 1/4 sec. cor., marked 1/4 on N. face. 2d raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor.	
Site impracticable	
57.00 Top of ridge bears N.W. leave cedar, descend, and N.W. N.W. house top bears N.W. about 25 dist.	
72.00 Back of mountain	
73.00 Lost creek 10 ft. wide course N.E.	
78.70 Wagon road to Segundo bears N.E. 1/8 mi.	
79.00 The cor. of sec'd 23, 24, 25 and 26. Land mountainous Soil stony; 4th rate.	
Drinker cedar	57.00 cor.
Mountainous land	79.00 cor.
Sept 12: At this cor. we set off 3° 52' N. on the decl. arc; and at 11 hrs. 56 m. P.M.A., observe the sun on the meridian the resulting lat. is 38° 53' N.	

No° 1 N. on a random line between 23 and 24,	
Set a Drachyte stone 1/4 sec. cor.	
85.24 Intersect E. and W. lines 30, 40 m. E. of the cor. of sec'd 13, 14, 20 & 21 the falling is beyond the limits prescribed by the Manual of Instructions procedure for setting closing corners, 23 & 24 as follows. Set a Drachyte stone 16 x 10 x 9 in., 12 in. in the ground for closing cor. ner of sec's 23 and 24 marked 1/4 on S. with 3 grooves on S and 1 groove on E. face and raised a mound of stone 2 ft. base 1 1/2 ft. high N. of cor.	
Site impracticable, the obstacles make an old cor. impracticable, 23 and 24	

Subdivision of T. 22 S., R. 1 W. Continued.

chains.	Plane of sun
	S. 0° 1' 6" on a true merid. sec. 23 and 24, ascending over stony soil
35, 24	Top of ridge, bears N. E. and S. W.
	Descending, along E. slope of mountain.
48, 24	Set a trachyte stone 14 x 10 x 10 ins., 10 ins. in the ground for 1/4 sec cor. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.
75, 74	Foot of mountain. along level. clay soil.
88, 24	The cor. of secs. 23, 24, 25 and 26. Land. mountainous.
75, 74 13, 80	Soil. clay and stony: 3 rd and 4 th pallet, No timber, Mountainous land 75, 74 chs.
	Sept. 12, 1897

Sept. 13, 1897.

At 7 a. m., l. m.t., I set off 38° 51' N. on
the lat. arc; 3° 36' N. on the decl. arc;
and determine a true meridian
with the solar at the cor. of secs. 34
and 35,

Plane of sun

N. 0° 1' 6" bet secs. 34 and 35;

Descending over stony soil, through
scattering cedars, along N. slope of mountain

10.00	Small ravine. source N. W.
40.00	Set a trachyte stone 20 x 8 x 8 ins., 15 ins. in the ground for 1/4 sec cor. marked 1/4 on N. face, and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.
74.00	Foot of mountain, leave cedars, enter sage brush flat, bears N. E. and S. W.
80.00	Set a trachyte stone 18 x 10 x 8 ins., 12 ins. in the ground for cor. of secs. 26, 27, 34 and 35; marked with 1 notch on S and 2 notches on the E.

Subdivision of T. 2 S. R. 1 W. Continued

8.000	edges, and raised a mound of stone 2 ft. base, 1 1/2 ft. high N. of cor. Pile impracticable.
	Land, mountainous.
	Soil, stony; $\frac{1}{4}$ mile rate.
	Timber, Cedar scattering, 74,000 lbs. Mountainous land 80,000 lbs.
4.000	C. on a random line bet. secs. 26 and 35; Set a temp. 1/4 sec. cor.
8.012	Intersect N. and S. line 7 lks. N. of the cor. of secs. 25, 26, 35 and 36. Hence N.E. run:
	N. $89^{\circ} 57' 1''$ W. on a true line bet. secs. 26 and 35;
8.440	Descending, soil, stony, Foot of mountain.
	Lost creek, 15 lks. wide, drains N.
9.70	Wagon road, to Lizard, bears N. and S.
11.000	Begin steep ascent over slide trachyte stone and boulders.
34.00	Top of mountain. bears N. and S. Descending
40.006	Set a trachyte stone 22 x 8 x 6 in., 17. in. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raised a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pile impracticable.
76.00	Foot of mountain, cedar sage brush flat.
8.012	On cor. of secs. 26, 27, 34 and 35; Land, mountainous. Soil, stony; $\frac{1}{4}$ mile rate. No timber. Mountainous land, 80,120 lbs.
	At this cor. I set off 3° 0' N. on the deg. arc, and at 11 hrs. 56 m. L. M. T.; oblique N.E. sun on the meridian the resulting lat is. $38^{\circ} 52' N.$

Subdivision of T. 22 S., R. 1 W. Continued.

0 miles	No. 1 W. bch. sec. 26 and 27, along level land, soil loamy, heavy page brush
2.00	Wagon road to Segird, bears S. W. & W. E. Set a Sand stone 16x10x6 ins., 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raised a mound of stone 2 ft. base 1 1/2 ft. high 1/4 of cor. Pits impracticable.
4.500	Begin ascend over broken gypsum hills. leave page brush flat.
5.000	Set a Trachyte stone 18x9x9 ins., 12 ins. in the ground for cor. of sec. 22. 23. 26 and 27, marked with 2 notches on the land & edges. and raise a mound of stone 2 ft. base 1 1/2 ft. high 1/4 of cor. Pits impracticable. Land. level and mountainous. Soil. loamy and stony. No timber.
7.500	Mountainous land

35.000 ft.

Sept. 13, 1897.

Sept. 14, 1897.

at 7 a.m. I. m. st. set off 38° 53' N. on the
bch. and 3° 13' W. on the dec. w. and
determined a true meridian with
the polar at the cor. of sec. 22. 23.
26 and 27.

Hence W. run

S. 89° 57' E. on a random line bet sec. 23 and 26

4.000 Set a temp. 1/4 sec. cor.

7.9.95 Intersect N. and S. line 6 lbs. S. of the
cor. of sec. 23. 24. 25 and 26.

Hence E. run

W. on a true line bet. sec. 23 and 26.

Along level land

Wagon road to Segird. bears N. W. & S. E.

Wagon road to Segird. bears S. W. & S. E.

Begin ascend over rolling land

Subdivision of T. 22 S., R. 1 W. Continued.

Plans 39,971	euler scattering cedar. Set a trachyte stone 16 x 10 x 7 ins., 12 ins. in the ground for $\frac{1}{4}$ sec. cor. marked. $\frac{1}{4}$ on N. face and raise a mound of stone 2 ft. base, $\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
6,800	Bottom of ravine 50 ft. deep coarse, 3 Ascending
7,9,95-	The cor. of secs. 22, 23, 26 and 27, Land. mountainous
6,95- 18	Sod, dry w/ beam. Timber, cedar scattering. 61,95 phrs; Mountainous land 61,95 phrs.
4,000	N. 0° 1' W. on a random line bet. secs. 22 and 23. Set a stone, $\frac{1}{4}$ sec. cor.
8,7,48	Entered E. end N. line 249 obs. N. 89° 26' E. of the cor. of secs. 14, 15, 22 and 23 the falling is beyond the limits prescribed by the Manual of Instructions. Therefore we set a closing cor. as follows: Set a trachyte stone 16 x 10 x 7 ins., 12 ins. in the ground for closing cor. of fractional secs. 22 and 23. Marked C. C. with 3 grooves on S. and 2 grooves on the E. faces, and raised a mound of stone 2 ft. base $\frac{1}{2}$ ft. high S. of cor. Pits impracticable. We obliterate marks on old cor. referring to secs 22 and 23. Hence we run S. 0° 1' E. on a true line bet. secs. 22 and 23. Ascending over broken gypsum hills
14,7,48	Set a trachyte stone 16 x 9 x 7 ins., 12 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
5,8,50	Top of high ridge bears N. E. and S. W. Along N. side of low butte.
60,000	Began descend.

Subdivision of T. 22 S., R. 1 W. Continued.

Pharm.

874.8

Post cor. of pecc. 22, 23, 26 and 27.

Land, mountainous.

Soil, clay and stony.

No timber.

Mountainous land. 87.48 chain.

Sept 14, 1897.

Sept. 15, 1897.

At 7 a.m. I mt. the post off $38^{\circ} 08' N$ on the lat. arc, $2^{\circ} 50'$ N. on the dec. arc; and determined a true meridian with the solar at the cor. of pecc. 33 and 34, S. ldy. of Np, heretofore described. Checked the sun.

No. $2^{\circ} 2' N.$ lat. pecc. 33 and 34.

Ascending over broken gypsum hills through scattering cedars.

Bottoms of ravine soft, deep, coarse S. lo.

22.00 Point of spur bears S.E.

40.00 Set a cedar post 4 ft. long 3 in. sq of 36 in., in the ground for cor. of pecc. cor. marked $\frac{1}{4}$ on W. face, and raised a mound of stones 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. Post impracticable. Begin steep ascent.

49.60 80.00 Set a trachyte stone $2\frac{1}{4} \times 1\frac{1}{8} \times 8$ in., 18 in. in Ht. ground for cor. of pecc. 27, 28, 33 and 34, marked with 1 notches on S. and 3 notches on the E. edges, and raised a mound of stones 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. Post impracticable.

Land, mountainous.

Soil, clay and stony.

Timber, Cedars, scattering.

Mountainous land. 80.00 chain.

6. on a random line bet. pecc. 27 and 34.

Subdivision of 9, 2, 26, T.R. No. Cons.

Plans:

4000 Set a temp. 1/4 sec. cor.

5000 Intersect N. and S. line at the cor. of
secs. 26, 27, 34 and 35;

Hence run

W. on a true line bet. secs. 27 and 34,

along level land through sage brush

1500 High road to Ridge. Beard St. 4.00 ft.

3500 Leave sage brush flat. begin ascend

over broken clay or gypsum hills

4000 Set a Trygylter stone 18 x 6 ins., 12 ins.

in the ground for 1/4 sec. cor. marked

1/4 on N. face, and raise a mound

of stone 2 ft. base 1/2 ft. high N. of cor.

Pit impracticable.

Sept 16:

at this cor. we set off 2° 43' N. on the

deq. arc. and at 11 hrs 55 m. l.m.t.

observe the sun on the meridian

the resulting lat is 38° 52' N

According to high scattering picture

5100 Top of Ridge. Beard St. 4.8 ft.

Descending

7815 Bottom of ravine 100 ft. deep courses S.

According

8011 The cor. of secs. 27, 28, 33 and 34;

Land, level and mountainous

Soil, clay, and stony;

Timber Cedars, scattering

Mountainous land.

115.01 Chgs.

N. & 2' W. on a random line bet. Secs. 27 & 28

4000 Set a temp. 1/4 sec. cor.

50,54 Intersect 142 plus 8. of the

cor. of Secs. 21, 22, 27 & 28. the falling is

beyond the limits prescribed in the

Manual of Instructions. Therefore, the

set a corner for the N.E. cor. of sec. as follows

Set a Trygylter stone 14 x 10 x 6 ins.

10 ins. in the ground for N.E.

Subdivision of T. 22 S., R. 1 W. Continued.

27.54	cor of fractional sec., 28. marked with 2 notches on E. and 3 notches on N.E. edges, and raised a mound of stone 2 ft. base 1/2 ft. high S.W. of cor. Cut impracticable. destroy marks on old cor of secs 21, 22, 27 and 28 and mark as the S. E. cor. of sec. 21 only. Hence the name. $5.0^{\circ} 2\frac{1}{2}$ on a true line bet. secs. 27 and 28. descending over broken gypsum ridges.
27.54	Top of ridge, bears N.E. and S.W. Descending.
46.54	Set a true line alone 18' 9" x 8' 6", 12' 6". in the ground for 1/4 sec. cor., marked 14 on W. face and raised a mound of stone 2 ft. base 1/2 ft. high N. of cor. Cut impracticable.
54.00	Bottom of ravine is soft, deep, coarse S.E. begin steep ascent
59.00	Ledge, 20 ft. high, bears S.E. and N. 70.54 Scattered scattering cedar
80.00	Top of high ridge, bears S.E. and N. Descending over very stony soil.
86.54	The cor. of secs. 27, 28, 33 and 24. Land mountainous, soil, clay and stony; timber, cedar, scattering mainly birchwood

Sept. 6, 1895

Set at 16:15 m.	
id 7 a.m. Com. to the set off 38° 53' N. on the lat arc, 2° 27' N. on the deg. arc, and determine a true meridian with the solar at the cor. of secs. 22, 23, 26 and 24.	
Merid. Merid.	
11. on a random line bet. secs. 22 and 24,	
Set a comp. 1/4 sec. cor.	
Intersect N. and S. line 6.54 dist 80' 2" E. the N.E. cor. of sec. 28 established by me.	

Subdivision of T. 2 S., R. 1 W. Continued.

Plans. The falling is beyond the limits prescribed by the Manual of Instructions. Therefore we set a closing cor. for sec. 22 and sec 27, as follows:

Set a Trachyte stone 19 x 11 x 10 in., 14 in. in the ground for closing cor of sec 22 and sec 27, marked N. E. on the E. with 3 grooves on the E. and 2 grooves on the S. faces, and raised a mound of stones 2 ft. base 1/2 ft. high E. of cor. Pitt impracticable.

Thence we run

E. on a true line bet. secs. 22 and 27, ascending over broken gypsum hills

25.25 Top of ridge. bears. N.E. and S.W.
Descending

40.24 Set a Trachyte stone 15 x 9 x 9 in., 10 in. in the ground for 1/4 sec. cor. marked N. on N. face, and raised a mound of stones 2 ft. base 1/2 ft. high, N. of cor. Pitt impracticable.
Ascending over broken gypsum hills

69.00 Top of ridge. bears N. and S. W.
Descending

80.48 Tho cor. of secs. 22, 23, 26 and 27.
Land, mountainous.

Sil. clay
No timber.

Mountainous land.

8048 pho.

From the cor. of secs. 32 and 33. on S. bdy. of the sp. heretofore described. We run N. S. 3° W. bet. secs. 32 and 33.

Descending

Bottom of ravine 75 ft. deep, course N. W. begin ascend over broken

8.00

Subdivision of T. 22 S., R. 1 W. Continued.

Shows	gypsum hills.
16.00	Ledges. Top of ridge, bears E. & N. W. Descending.
24.00	Set a sandstone 18 x 12 x 10 ins., 12 ins. in the ground for the sec. cor. marked $\frac{1}{4}$ on W. face, and raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Plot impracticable.
43.00	Bottom of ravine, 100 ft. deep, course W. ascending
59.40	Top of ridge. Bears E. & S. descending.
63.00	Bottom of ravine, 50 ft. deep, course W.
68.70	Top of ridge bears E. & S. descending.
75.10	Foot of slope under small sage brush flat, bears W. and E.
80.00	Set a cedar post 3 ft. long 8 ins., 89, 24 ins., in the ground for cor. of secs. 28, 29, 32 and 33. marked T. 22 S., S. 28 on N. E. R. 1 W., S. 33 on S. E. S. 32 on S. W. and S. 29 on N. W. faces with 1 notch on S. and 4 notches on E. edges, and raised a mound of stones 2 ft. base 1½ ft. high W. of cor. from which
	A cedar 12 ins. diam. bears S. 85° -E. 10 lbs. dist. Marked T. 22 S. R. 1 W. S. 33 B. T.
	A cedar 10 ins. diam. bears N. 85° -E. 30 lbs. dist. Marked T. 22 S. R. 1 W. S. 29 B. T. no other trees within proper dist. Plot impracticable.
	Land, mountainous.
	Soil, clay:
	No timber.
	Mountainous land.

Sept. 16. 1897.

\$0.00 per

Sept. 17: 1897

At 7 a. m. I mulled off $38^{\circ} 52'$ now
the lat. arc. $2^{\circ} 04'$ N. on the dec.
arc. and determined a true

Subdivision of T. 22 S., R. 1 W. Continued

	Land, mountainous with the solar at the of sec. 28, 29, 32 and 33. Hence we run
40.00	on a random line bet. sec. 28 and 33. Set a temp. $\frac{1}{4}$ sec. cor.
80.22	Intersect N. and S. line at the cor. of secs. 27, 28, 33 and 34, Hence we run N. on a true line bet. secs. 28 and 33. According.
12.00	Top of ridge bears S.W. and N.E. Descending over broken gypsum hills
40.11	Set a Sandstone 18 x 8 x 6 in., 12 in. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face and raised a mound of stone 2 ft. base $\frac{1}{2}$ ft. high N. of cor. This impracticable.
67.25	Bottom of ravine. Head of small sage brush flat. bears S.W. and N.E. along S. slope of ridge gentle ascent
80.22	The cor. of secs. 28, 29, 32 and 33, Land, mountainous. Soil, clay. No timber.
	Mountaineous land. 80.22 cor. At this cor. we set off 1° 57' N. on the dec. arc. and at 11 hrs. 54 m. l.m.t. observe the sun on the meridian the resulting lat is $38^{\circ} 57' N$

	N. $0^{\circ} 3'$ W. on a random line bet. sec. 28 and 29.
40.00	Set a temp. $\frac{1}{4}$ sec. cor.
85.88	Intersect E. and N. line 57 hrs. $58^{\circ} 26' E$ of the cor. of secs. 20, 21, 28 and 29. The falling is beyond the limits prescribed by the Manual of Instructions. Therefore we set a closing cor. as follows (after obliterating marks referring to secs 28 and 29).

Subdivision of T. 22, S., R. 1 W. Continued.

- Quartz. a Traquile stone $24 \times 11 \times 9$ in., 18 in. in the ground for closing cor. of sec. 28 and 29 marked E. E. on the S. with 2 grooves on S. and 4 grooves on E. faces, and raised a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high S. of cor. Pit impracticable; hence the run S. 3° E. on a true line bet. sec. 28 and 29, descending over stony soil.
- 8.08 Top of ridge, bears N.E. and S.W. Descending rapidly
- 16.51 Bottom of ravine 100 ft. deep, coarse N.E. Ascending under scattering cedars.
- 19.01 Ledges. Top of ridge, bears S.W. and N.E. Descending over broken clay hills. Set a Sandstone $18 \times 10 \times 10$ in., 12 in. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face and raised a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. Pit impracticable.
- 58.78 Bottom of slope.
- Wagon road. No. Sigurd, bears S.W. and N.E. Descending.
- 59.85 Top of ridge, bears E. and W. descending,
- 66.38 Bottom of ravine course N.
- 79.85 Top of ridge, bears E. and W.
- Descending
- 85.88 The cor. of sec. 28, 29, 32 and 33.
- Land, mountainous.
- Soil, clay and stony.
- Timber, cedar scattering 69.34 ac.
- Mountainous land 85.88 cha.
- Sept. 17, 1897.

Sept. 18, 1897.

At 9 a.m. l.m.t. He ped off $38^{\circ} 51'$ N. on the lat. arc; $104^{\circ} 1'$ W. on the decl. arc; and determine a true meridian with the solar at the cor

Subdivision of T. 22 S., R. 1 W. Cont.

- Plants of secos. 31 and 32. S. edge. Up. horticulture described
Hence terrain
- N. o 3' H. beh. secos. 31 and 32,
Descending
- 10.00 Foot of slope enter sage brush flat
beams N.E. & S.W. along level
- 18.20 Hagon road to Laram. bears S.E. & N.E.
- 21.60 Dry wash 15 ft. deep. 20 ft. wide, coarse
S.s.
- 26.60 Wash 10 ft. deep. 8 ft. wide coarse S.s.
Leave sage brush begin ascend
- 33.75 Top of ridge bears. N. o 6. & S. & N.
Descending along N. slope of ridge
- 34.00 Set a cedar post 4 ft long 6 in. dia.
36. in the ground for 1/4
Sec. cor. marked yellow N. face.
dig pile 18x18x12 in. N. and S. of
post 3 ft. ditch, and raise a mound
of earth 3 ft. base 2 ft. high N. of
post.
- 67.00 Begin ascend
- 70.00 Set a Sandstone 18x10x6 in., 12 in.
in the ground for cor. of secos. 29,
30. 31 and 32, marked with 1 notch
on S. and 5 notches on the E.
edges and raise a mound of
stones 2 ft. base 1/2 ft. high N. of cor.
Pile impracticable.
- Land mountainous.
Soil. clay and stony. 3rd and 4th water
No timber.
- Mountainous land 80.00 plus
-
- C. on a random line bet. secos. 29 and 32.
- 20.00 Set a lime in sec. cor.
- 20.50 Intersect N. and S. line at the cor. of
secos. 28, 29, 32 and 33.
- H. on a true line bet. secos. 29 and 32.
Descending gradually along the

Subdivision of T. 22 S., R. 1 W. Continued.

- Chains. Slope of a ridge.
- 20.00 Point of spur, bears N.E. and S.W.
- 30.00 Sparse sage brush, along level.
- 34.00 Dry wash, 6 ft. deep 20 lbs. wide course, S.W.
- 38.90 Dry wash 4 ft. deep, 12 lbs. wide course S.W.
- 40.02 Set a Sandstone 22 x 10 x 8 ins., 14 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face and raise a mound of stone 2 ft. base, $\frac{1}{2}$ ft. high N. of cor. Pipe impracticable.
- 41.85 wagon road, to Segund. bears S.W. & N.E.
- 54.40 Sparse sage brush begin steep ascent.
- 56.00 Top of ridge bears N.E. and S.W. Descending.
- 59.04 The cor. of secs. 29, 30, 31 and 32.
Land, mountainous;
Soil, clay and gravel;
No timber,
mountainous land. 55.64 chs.
At this cor. we set off $1^{\circ} 34' N.$ on the decl. arc. and at 11 hrs 5 min. Lmt. observe the sun on the meridian the resulting lat. is $38^{\circ} 52' N.$

- $N. 0^{\circ} 3' W.$ on a random line bet. secs. 29 & 30.
- 40.00 Set a Temp $\frac{1}{4}$ sec. cor.
- 85.06 Intersect E. and W. line at the cor. of secs. 19, 20, 29 and 30.
Thence W. run
 $S. 0^{\circ} 3' E.$ on a true line bet. secs. 29 & 30.
- Ascending
- 19.26 Top of ridge bears E. & W. descending
- 37.00 Bottom of ravine soft; deep. course N. N.E.
descending over rolling foot hills
- 45.06 Set a Trachyte stone 26 x 15 x 8 ins., 20 lbs. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face and raise a mound of stone 2 ft. base $\frac{1}{2}$ ft. high N. of cor. Pipe impracticable

Subdivision of T. 22 S., R. 1 W. Concluded

55.00	Top of ridge bears E. & W.	Descent
68.00	Bottom of ravine	course N.
80.00	Top of spur bears E. and N.	"
83.06	The cor. of secs. 29, 30, 31 and 32. Land mountainous. Soil, stony. No. timber.	
	Mountainous land	83.06 ac.
29.19	W. on a random line bet. sec. 30 and 31, after diligent search find no trace of old N.C. cor.	
78.19	Intersect N. bdy. of T. 21 1/2 chs. S. of the cor. of secs. 30 and 31. Hence we run E. on a true line bet. sec. 30 and 31. Along level	
28.50	Ragou road to Sigurd bears N. and S.	
40.00	Set a trachyte stone 14 x 10 x 9 ins., 10 ins. in the ground for reestablished $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N face and raise a mound of stones 2 ft. base. $1\frac{1}{2}$ ft. high N. of cor. Site impracticable	
43.00	Begin ascend over rolling foot hills	
78.19	Intersect N. and S. line 2. 1/2 chs. No. 03 N. of the cor. of secs. 29, 30, 31, and 32. The falling is beyond the limits pre- scribed in the manual of instructions. We therefore set a closing cor. as follows. Set a trachyte stone 16 x 10 x 8 ins., 12 ins. in the ground for closing cor. of secs. 30 and 31 marked C.C. on N. with 5 grooves on E and 1 groove on S. faces. and raise a mound of stones 2 ft. base $1\frac{1}{2}$ ft. high N. of cor. Site impracticable Land Mountainous Soil gravelly and stony; 3 rd and 4 th rule, No timber.	
	Mountainous land	78.19000
		Sept. 18, 1897.

General description.

This township contains nearly every variety of land, and the soil ranges from rich loam to alkali and very stony. The soil of the bottom land along the Sevier River in the western portion, and Losh Creek in the eastern portion of the township is generally rich loam and capable of producing abundant crops with irrigation. The soil of the remaining portions of the township can be classed as good and 4th rate. The south eastern portion is mountainous and very stony. The south western portion is mountainous but the soil is clay and gypsum, while the northeastern portion can be entirely classed as very broken gypsum hills.

Scattering cedar, mahogany, and Pinon pine are the only timber in this township and is of a very inferior class, all of the larger sizes having been cut out.

The township is arid land with the exception of the narrow strip adjacent Losh Creek in the eastern portion and Sevier River in the western portion and is entirely unfit for agricultural purposes or grazing lands.

There are two settlers in the portion of the township surveyed by sec. Mr. A. Blood is located in the N.E. 1/4 sec. 26 and N.W. 1/4 sec. 25, along the Losh R. and has about 8 acres under irrigation. Mr. Bordier M. M. is

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is located in the S.W. 1/4 sec. 2+4 along the Lash creek and has about 30+ acres under cultivation.

There are no visible indications of mineral in this township.

Hubert D. Paykin
George C. Swan
U.S. Deputy Surveyor

Volume

#

R0250

Final Oaths of Deputy Surveyors and their Assistants.

LIST OF NAMES.

A list of the names of the individuals employed by
....., United States Deputy Surveyor, to assist in running, measuring, and
marking the lines and corners described in the foregoing field notes of the survey of

showing the respective capacities in which they acted:

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted
....., United States Deputy Surveyor, in surveying all
those parts or portions of the

..... of the base
and meridian, of which are represented
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
corner monuments established, according to the instructions furnished by the United States Surveyor
General for

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

'ubscribed and sworn to before me this }
day of , 189



Final Oath of United States Deputy Surveyor.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of instructions received from _____, United States Surveyor General for _____, bearing date of the _____ day of _____, 189_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____

_____ of the _____ base and _____ meridian, in the _____ of _____, which are represented in the foregoing field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the *true* field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor.

Subscribed by said _____, United States Deputy Surveyor, _____
and sworn to before me this _____ day of _____, 189_____. }



APPROVAL.

Office of the United States Surveyor General,

Salt Lake City, Utah, May 26th, 189_____.
Office of the United States Surveyor General

The foregoing field notes of the survey of the *the 22d Range 1 West of the Salt Lake Base and Meridian, Utah*

executed by
Charles F. Page and George C. Sease
under his Contract No. 209, dated December 26, 1896, having been critically examined, the necessary corrections and explanations made, the said field notes, and the survey they describe, are hereby approved.

Jacob V. Blaine
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General.

Final Oaths of Deputy Surveyors and their Assistants.

LIST OF NAMES.

A list of the names of the individuals employed by
....., United States Deputy Surveyor, to assist in running, measuring, and
marking the lines and corners described in the foregoing field notes of the survey of

showing the respective capacities in which they acted:

....., Chainman.

....., Chainman.

....., Moundman.

....., Moundman.

....., Axman.

....., Axman.

....., Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted
....., United States Deputy Surveyor, in surveying all
those parts or portions of the

..... of the base
and meridian, of which are represented
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
corner monuments established, according to the instructions furnished by the United States Surveyor
general for

....., Chainman.

....., Chainman.

....., Moundman.

....., Moundman.

....., Axman.

....., Axman.

....., Flagman.

Subscribed and sworn to before me this }
day of , 189 . }



Final Oath of United States Deputy Surveyor.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of instructions received from _____, United States Surveyor General for _____, bearing date of the _____ day of _____, 189_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____

_____ of the _____ base and _____ meridian, in the _____ of _____, which are represented in the foregoing field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the *true* field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor.

Subscribed by said _____, United States Deputy Surveyor, _____
and sworn to before me this _____ day of _____, 189_____. }



APPROVAL.

Office of the United States Surveyor General,

Salt Lake City, Utah, May 26th, 1899.

The foregoing field notes of the survey of ~~the subdivisions of Township~~
~~22d South Range 1 West of the Salt Lake Base and~~
~~Meridian, Utah.~~

executed by
~~the~~ Robert H. Page and George L. Lease
under his Contract No. 209, dated December 26, 1896, having been
critically examined, the necessary corrections and explanations made, the said field notes, and the survey
they describe, are hereby approved.

Jacob P. Blaine
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____
has been correctly copied from the original notes on file in this office.

United States Surveyor General.